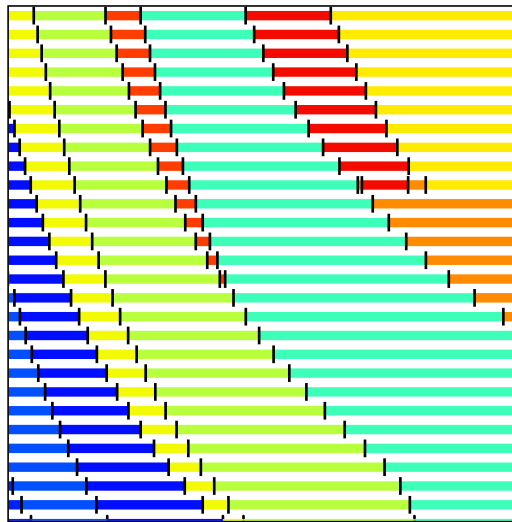


Best hits of 11110110111: model-free selection and parameter-free sensitivity calculation of spaced seeds

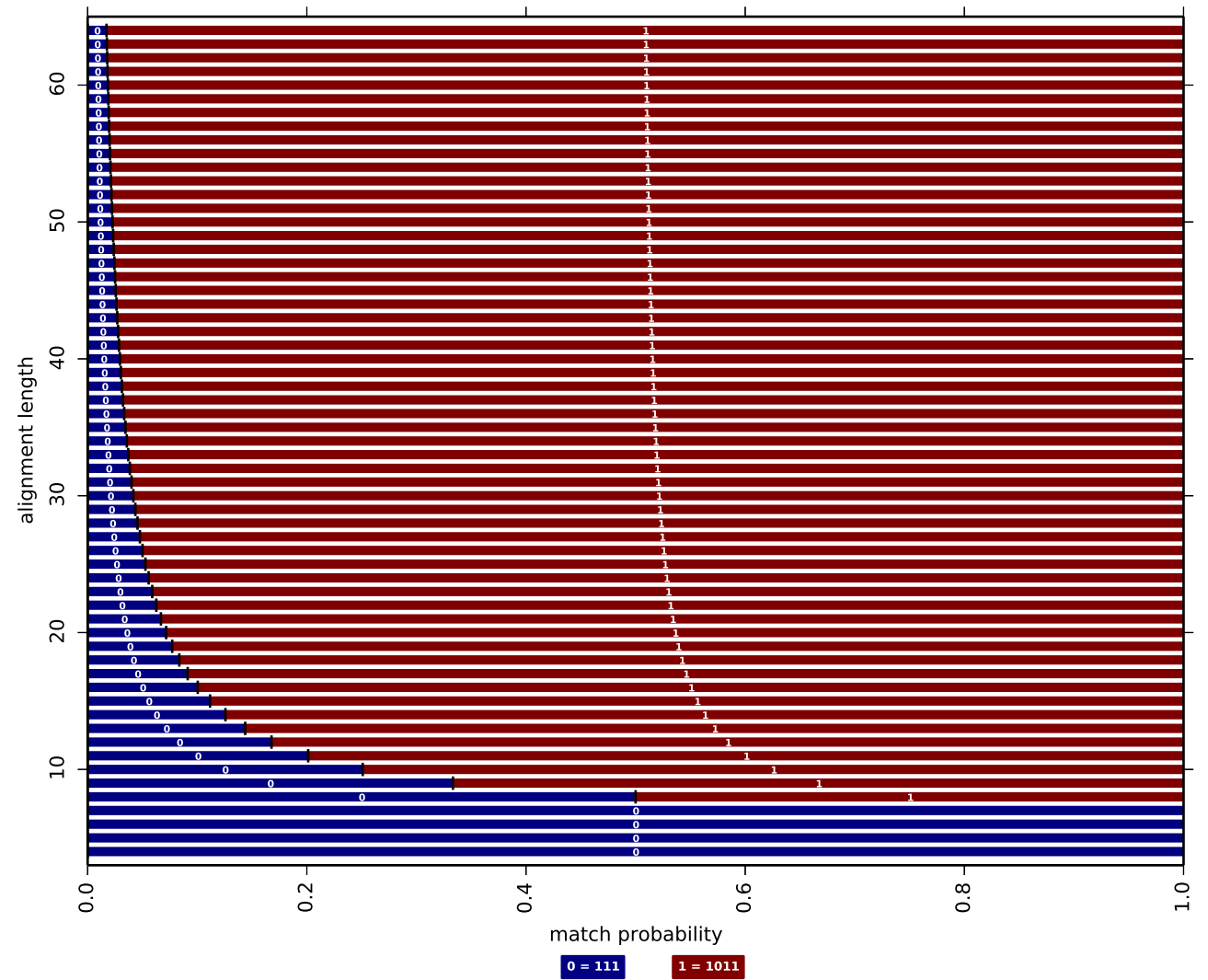
(supplementary file, extended)

Laurent Noé

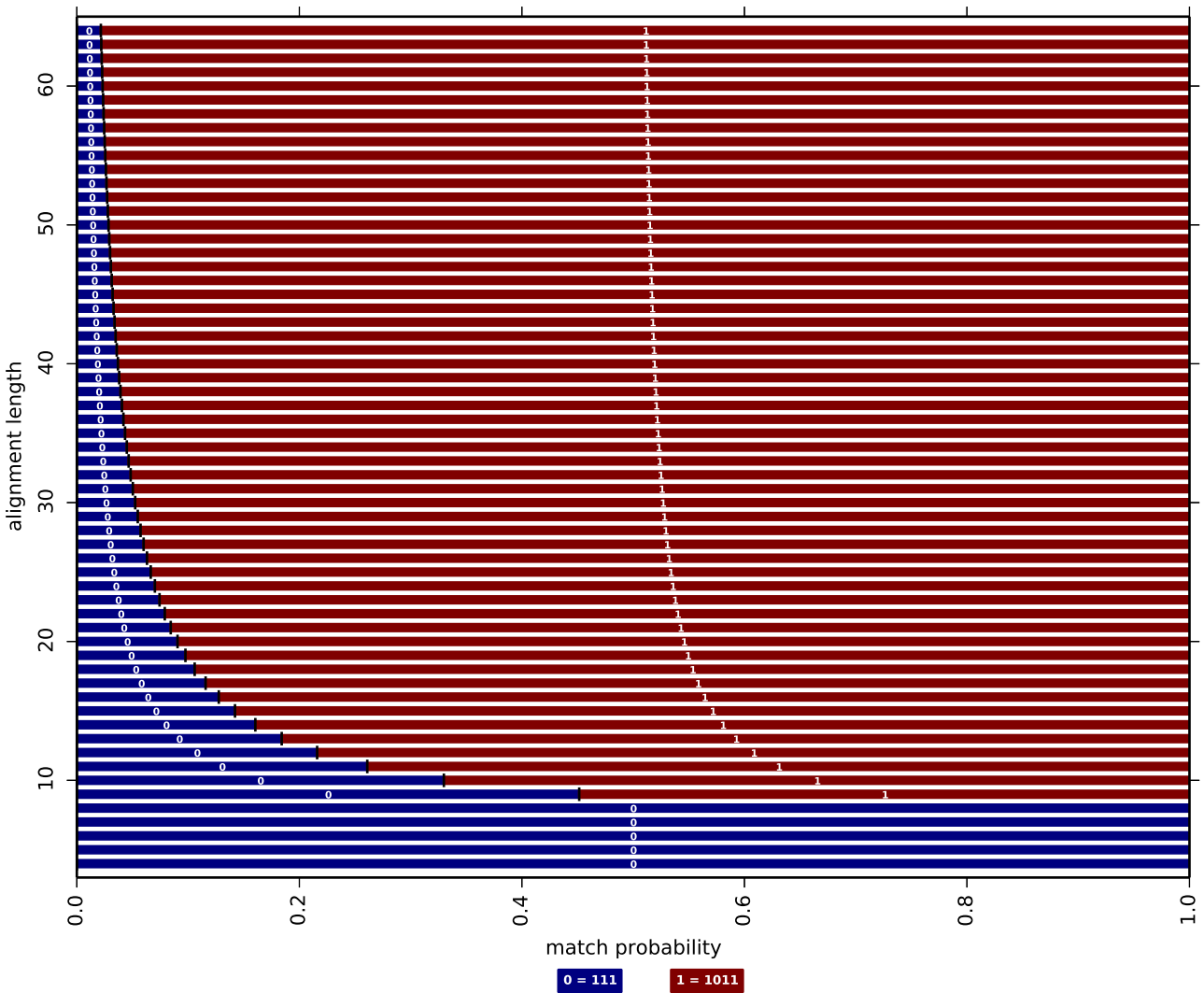


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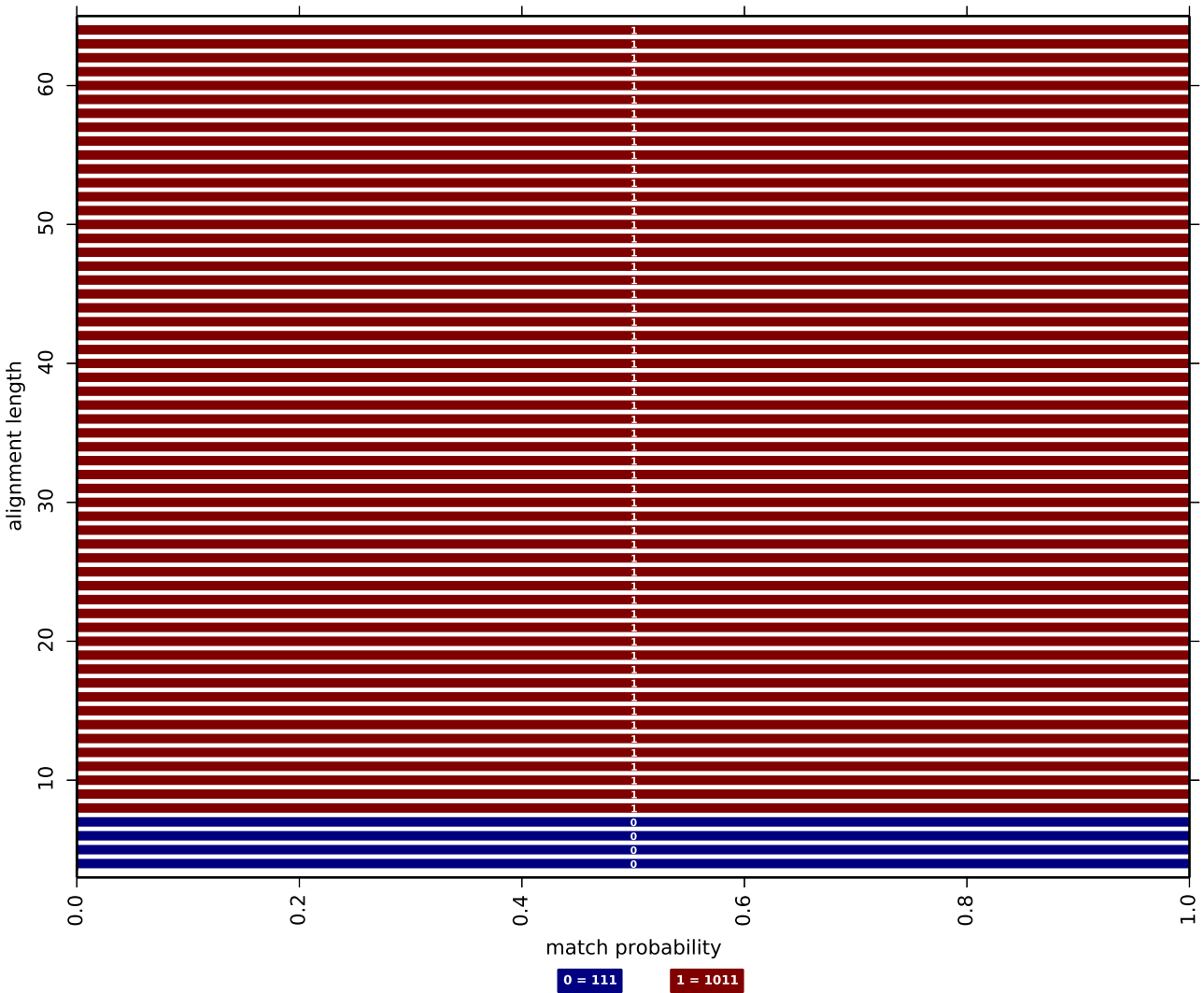
Bernoulli (n:1,w:3)



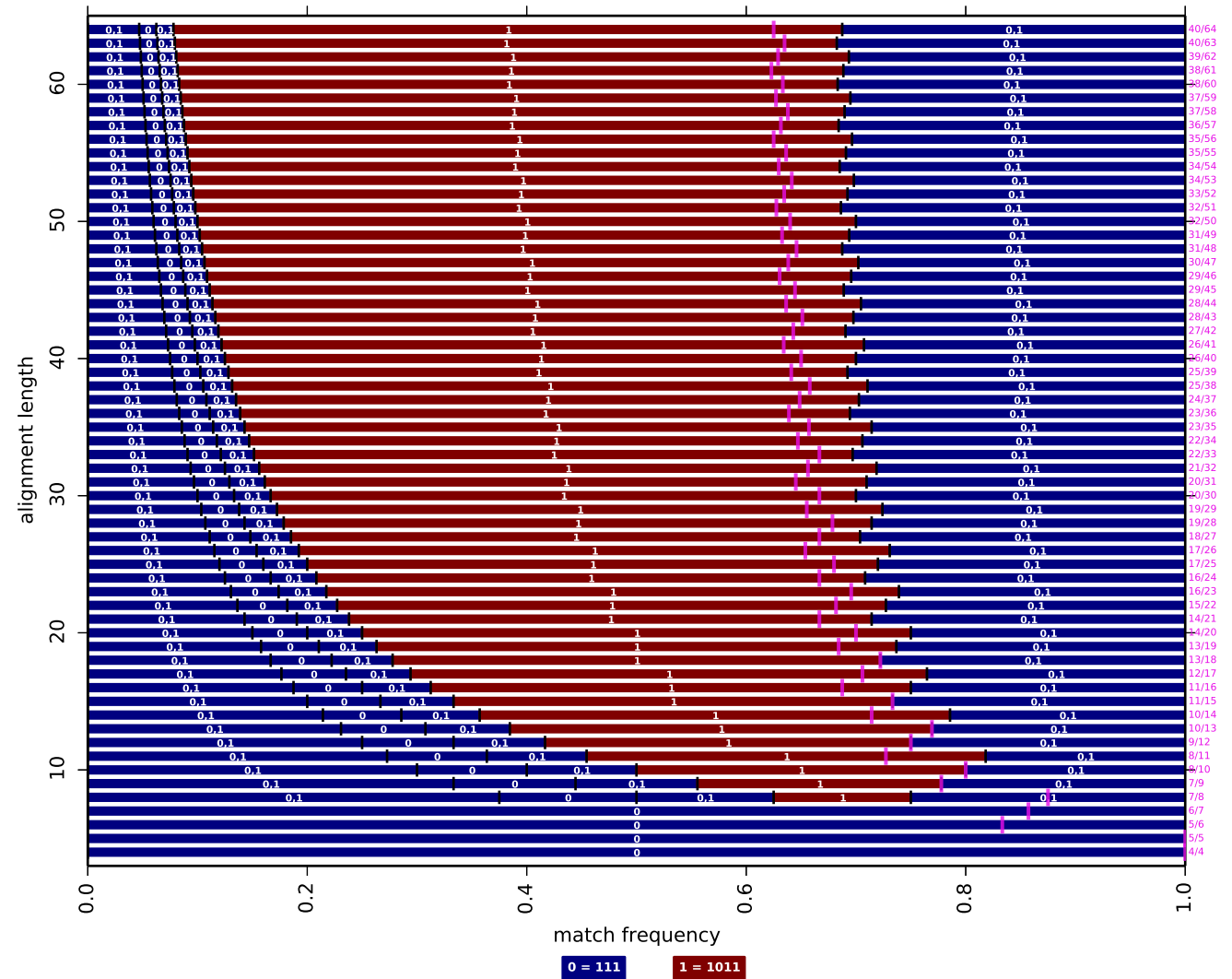
\int_0^x Hit Integration (n:1,w:3)



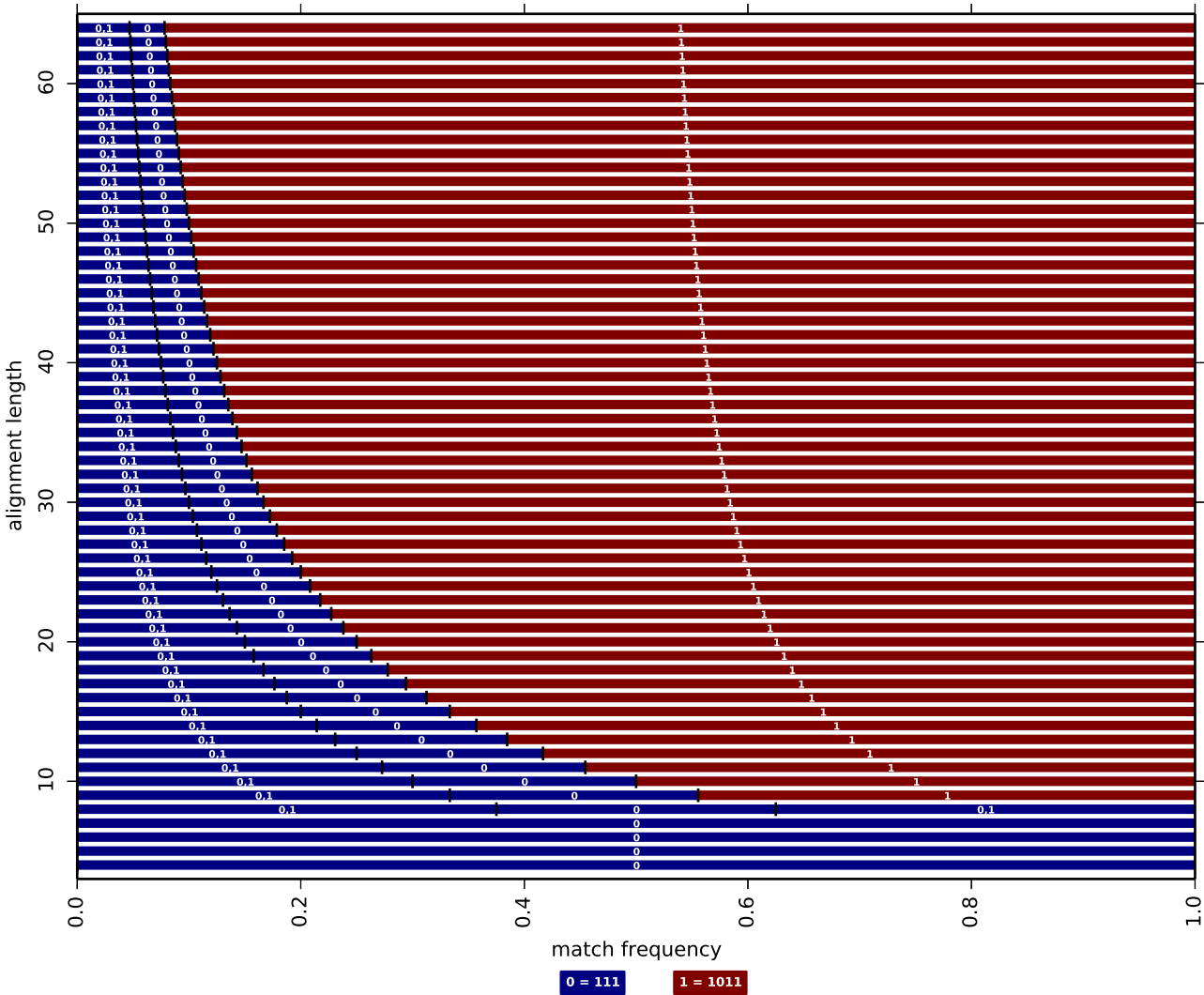
\int_x^1 Hit Integration (n:1,w:3)



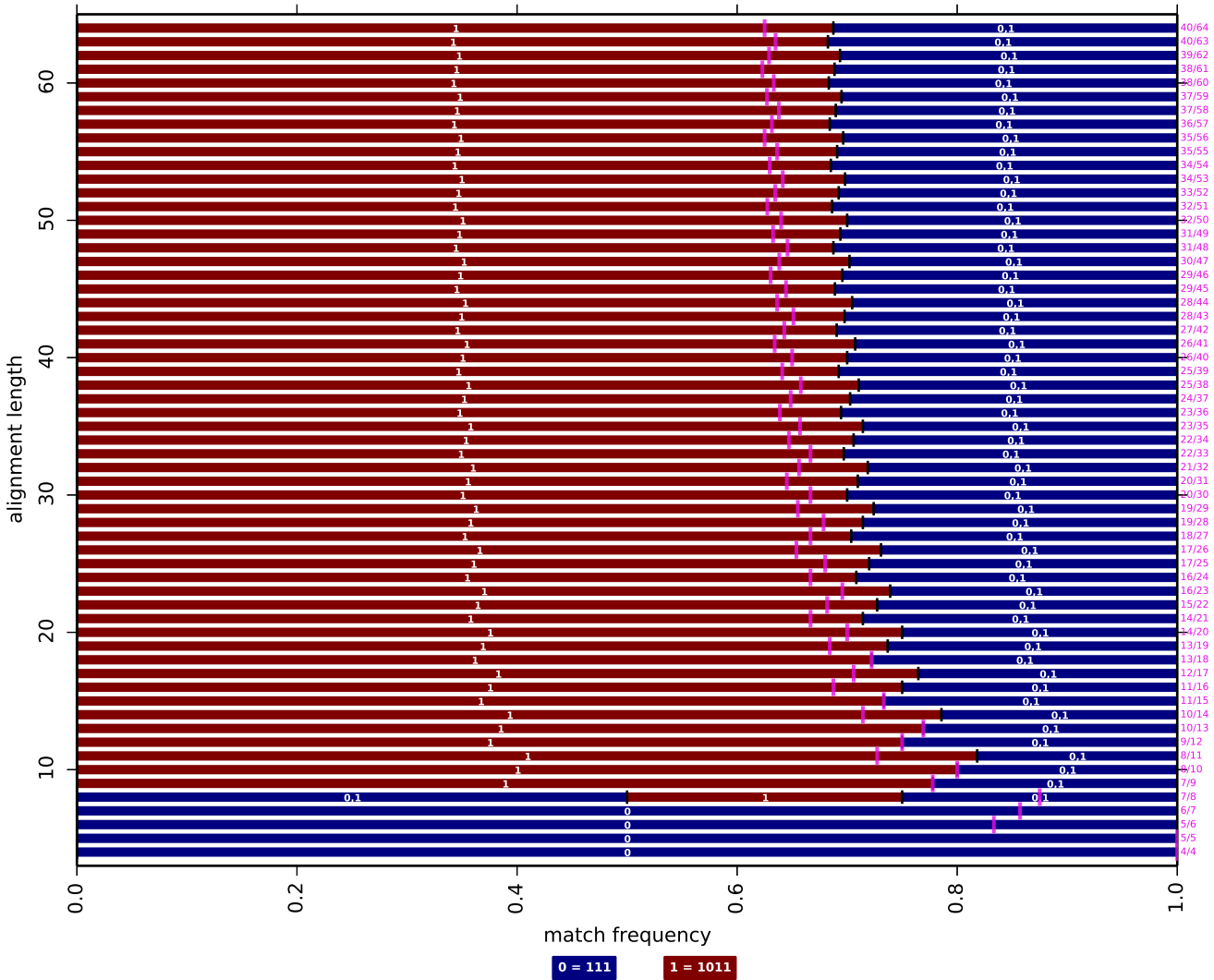
Dirac (n:1,w:3)



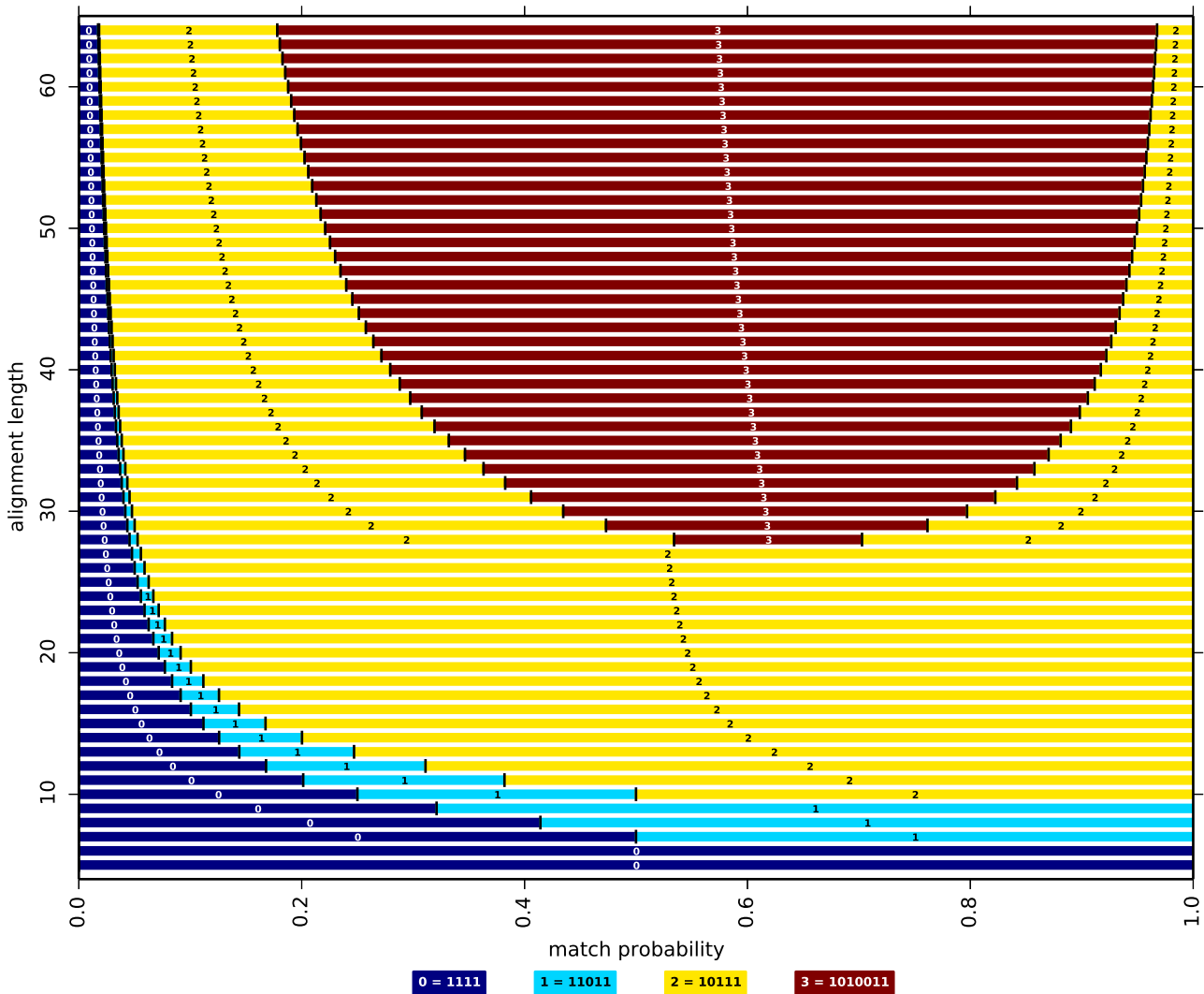
$$\sum_0^x \text{Heaviside}(n:1,w:3)$$



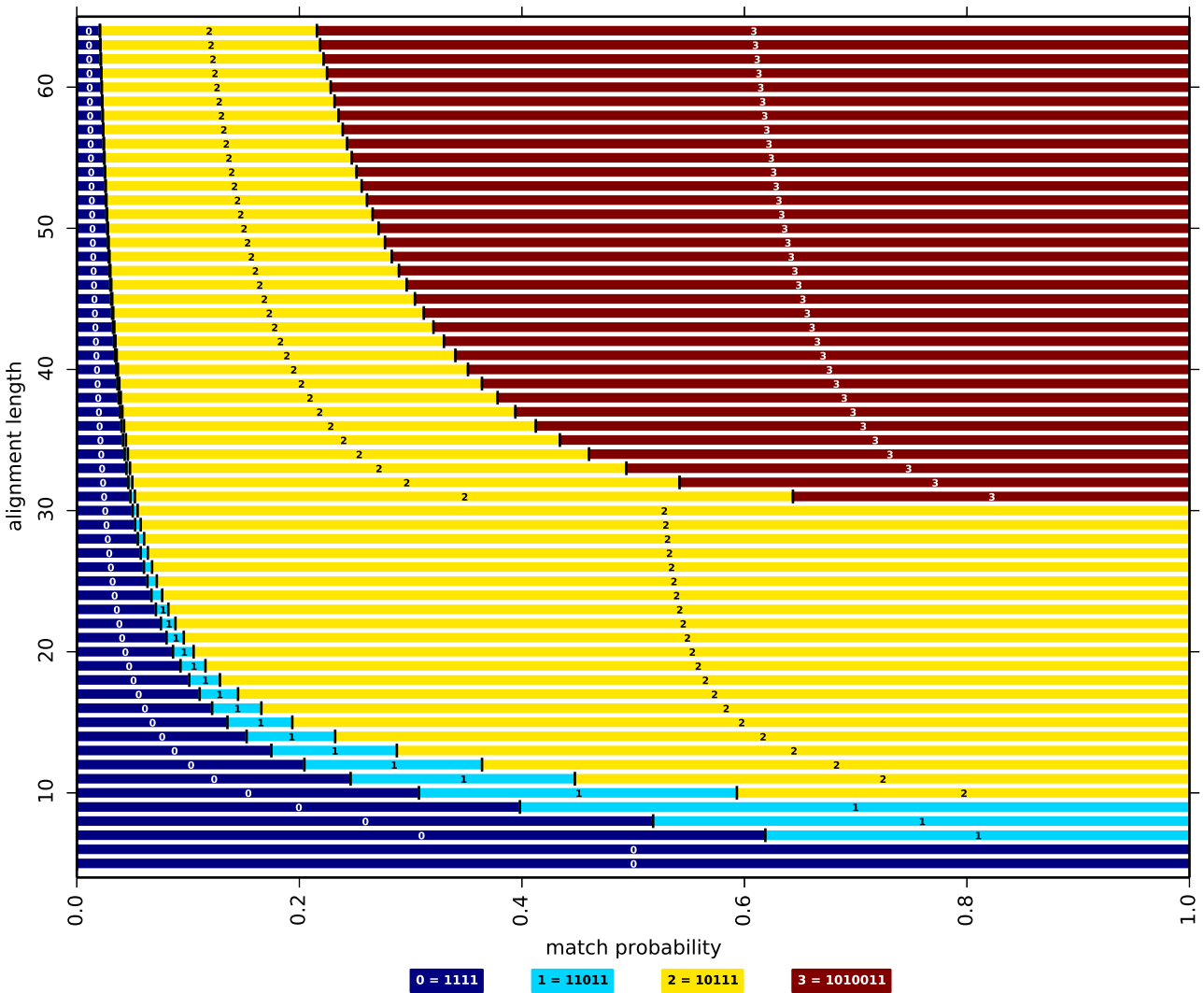
$$\sum_x^1 \text{Heaviside}(n:1,w:3)$$



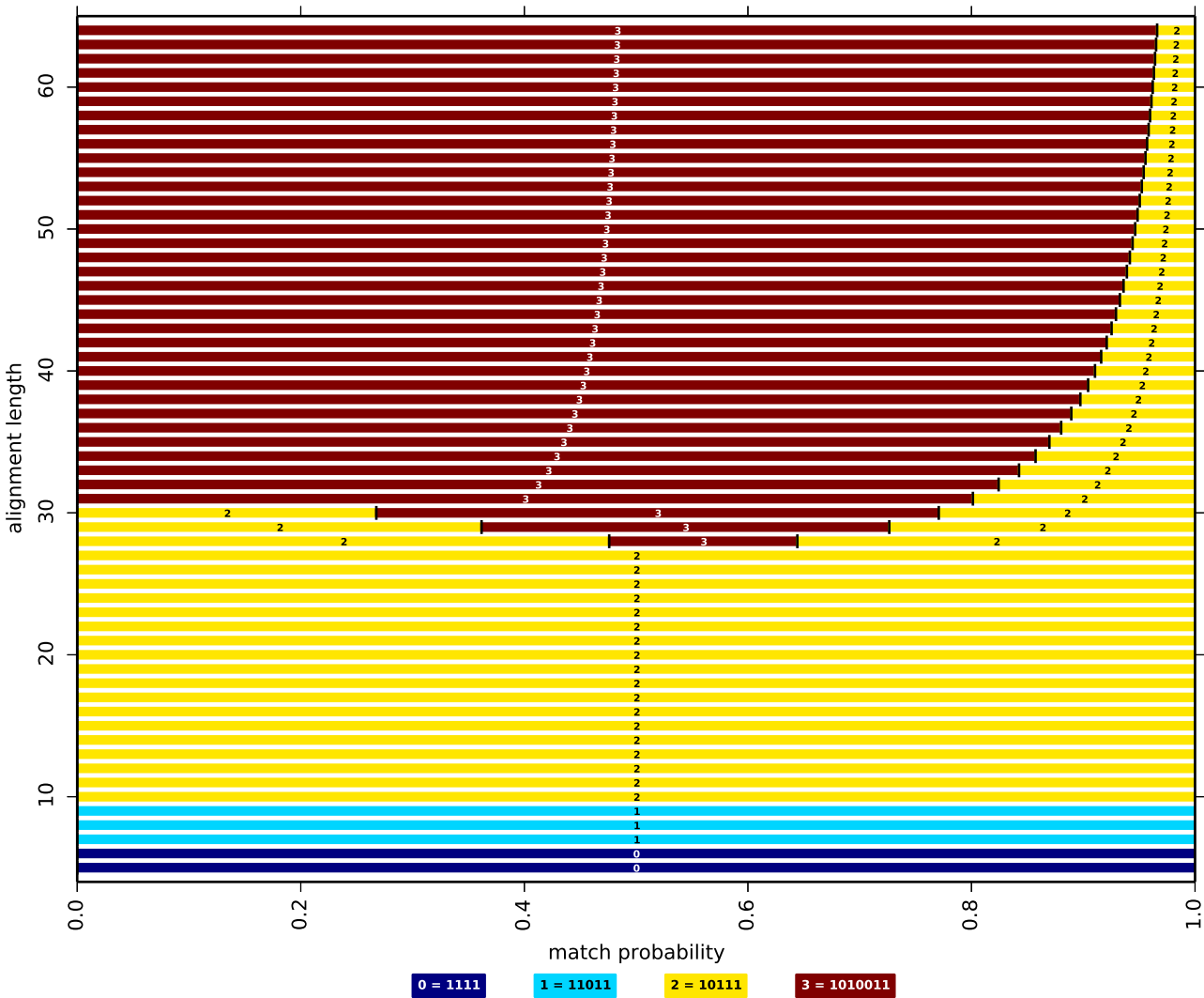
Bernoulli (n:1,w:4)



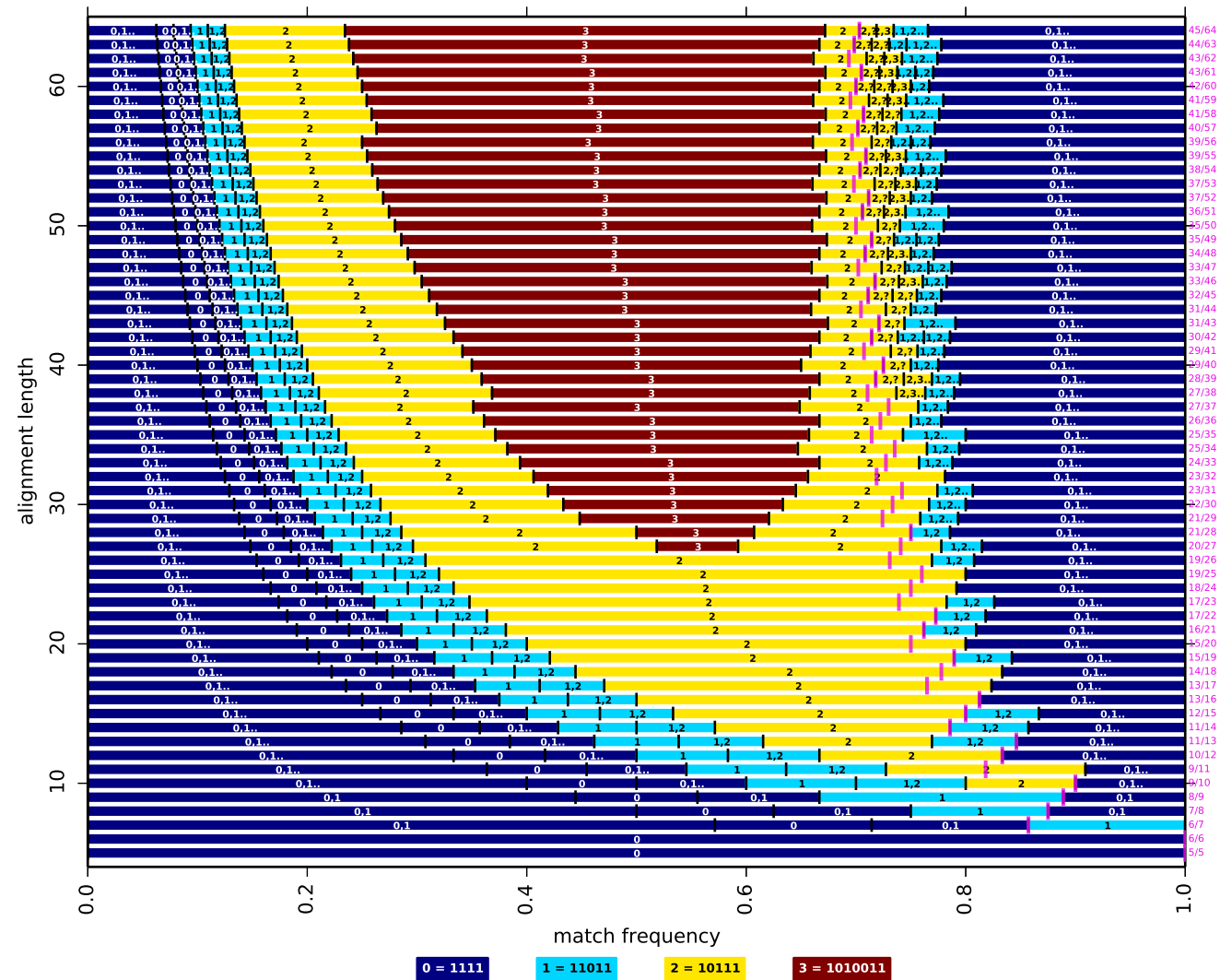
\int_0^x Hit Integration (n:1,w:4)



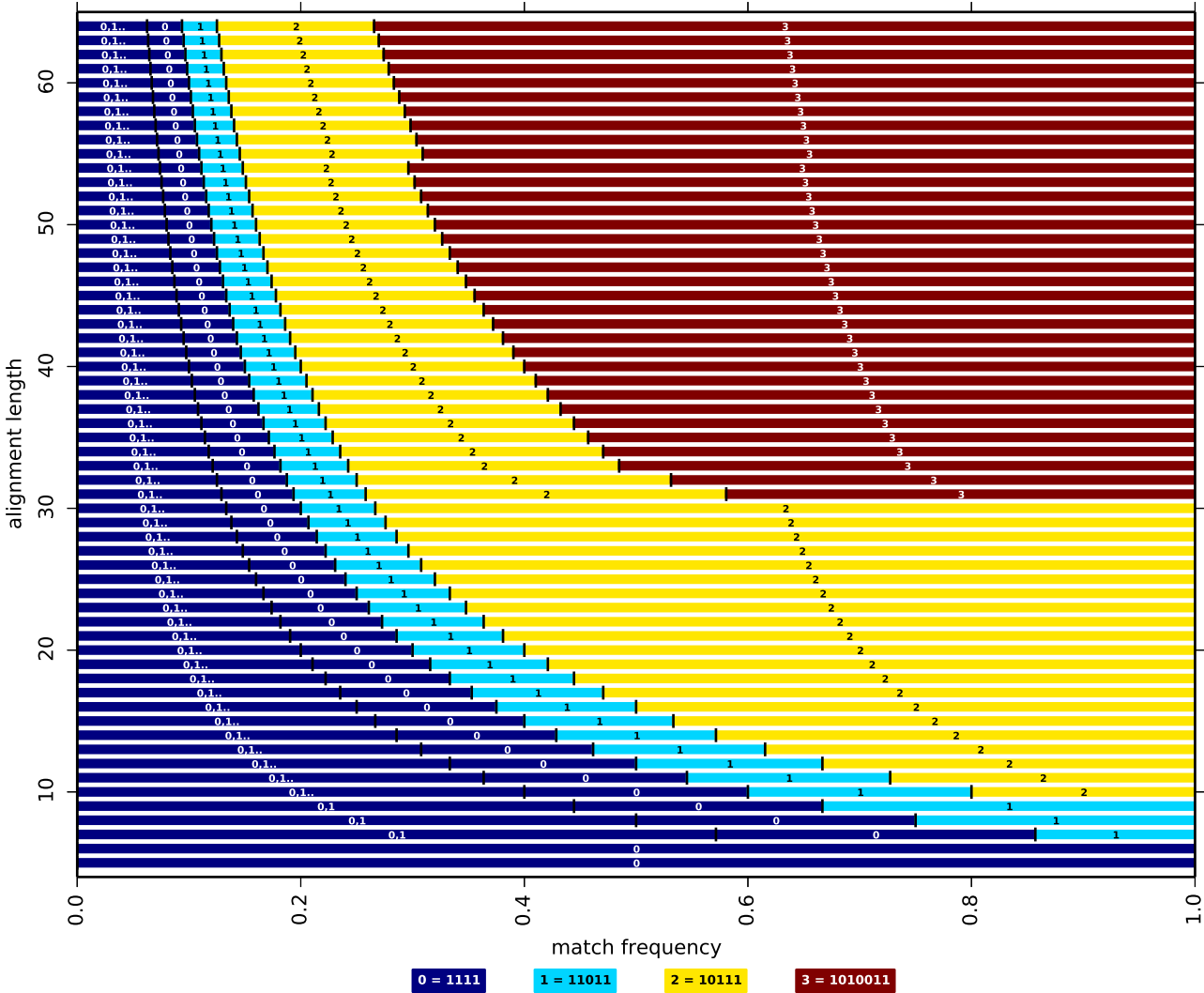
\int_x^1 Hit Integration (n:1,w:4)



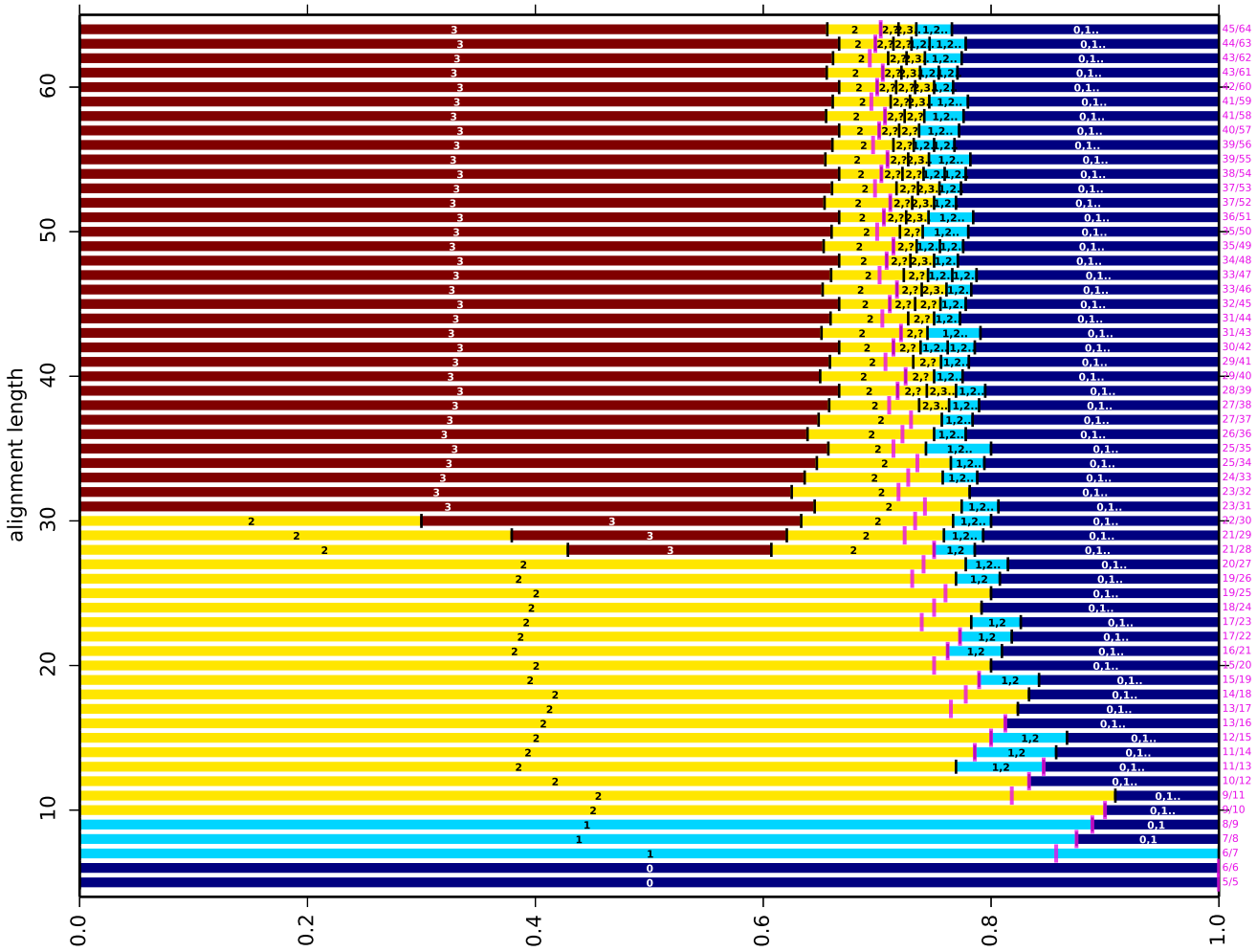
Dirac (n:1,w:4)



$$\sum_0^x \text{Heaviside}(n:1,w:4)$$

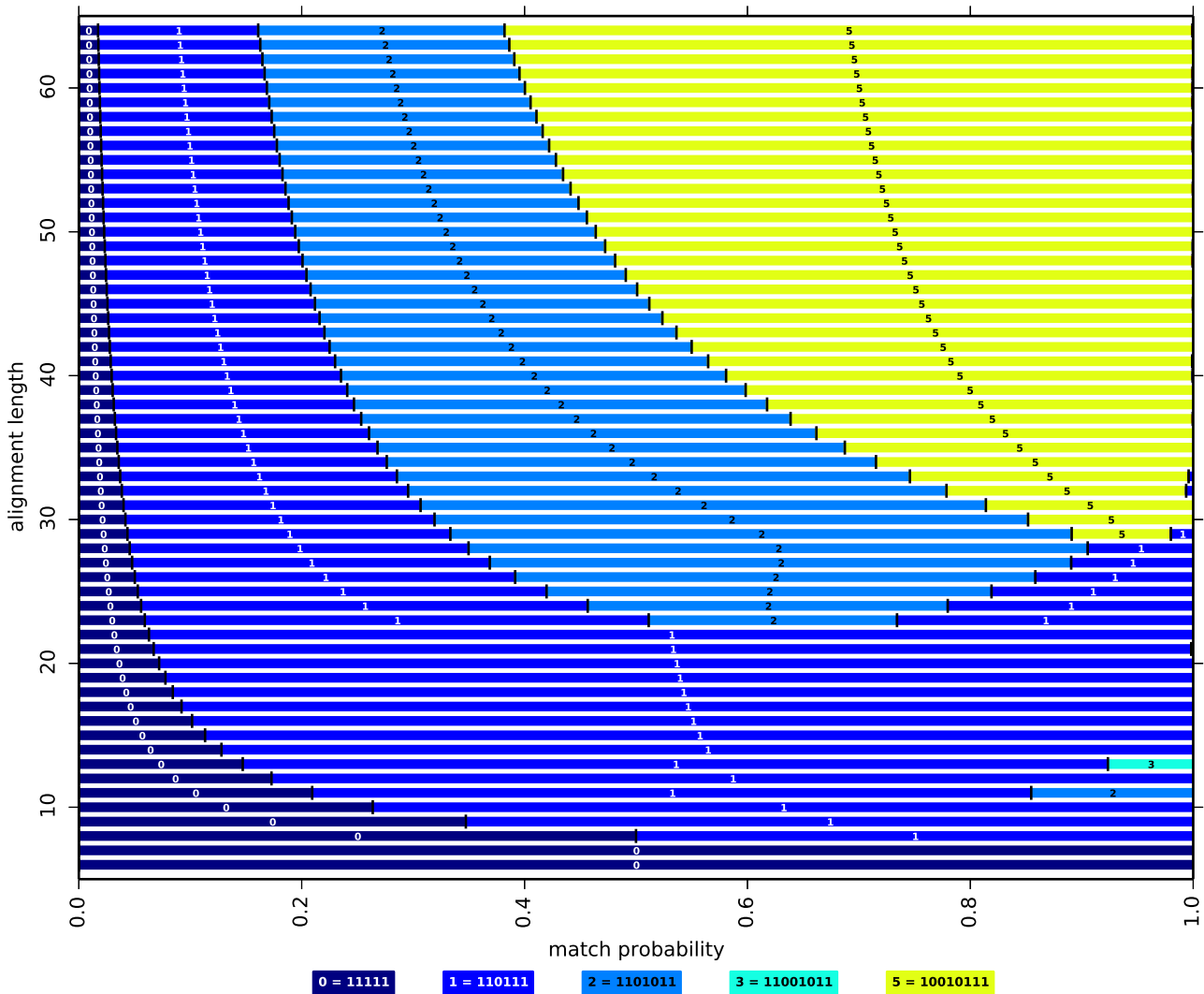


$$\sum_x^1 \text{Heaviside}(n:1,w:4)$$

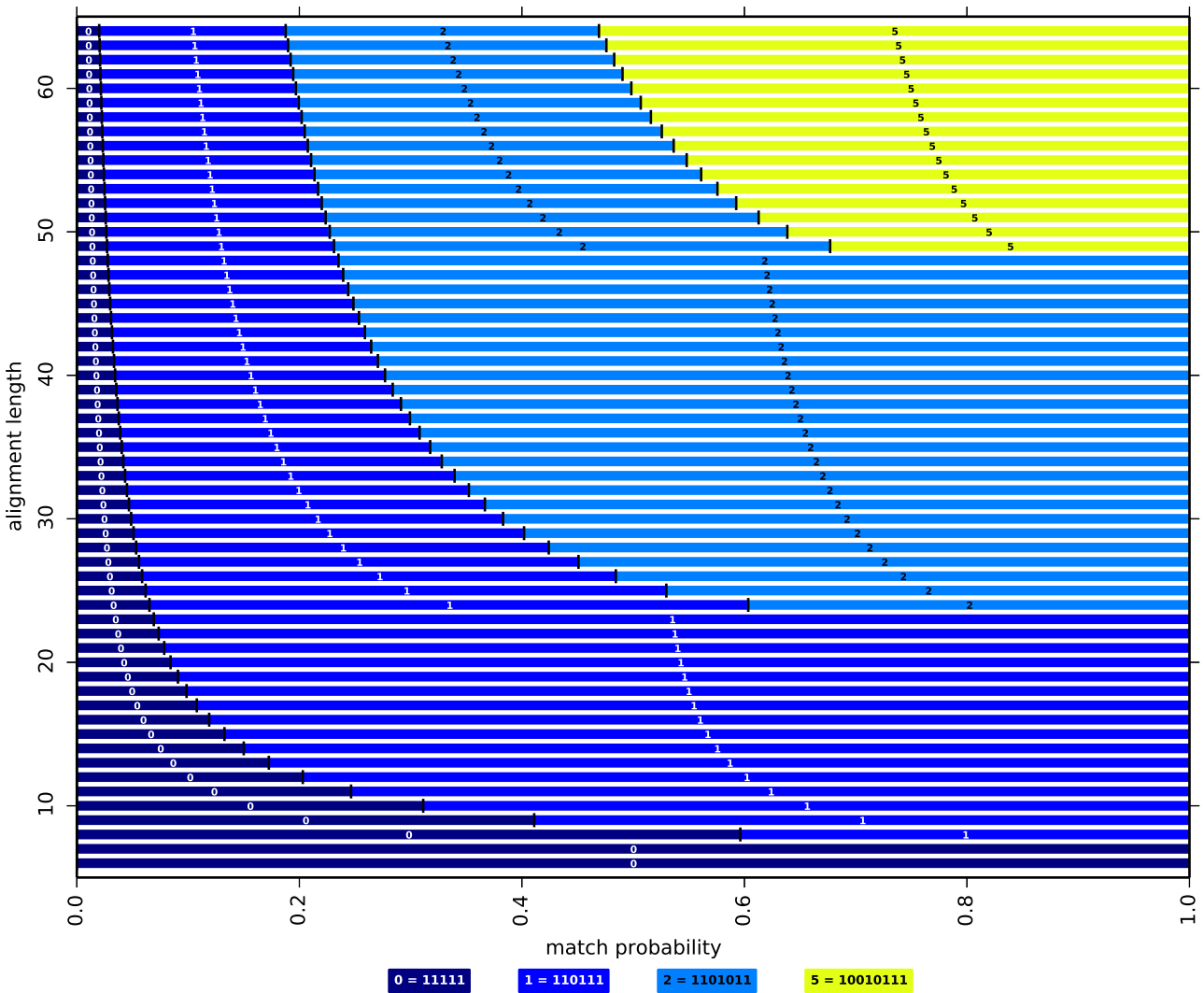


0 = 1111 1 = 11011 2 = 10111 3 = 1010011

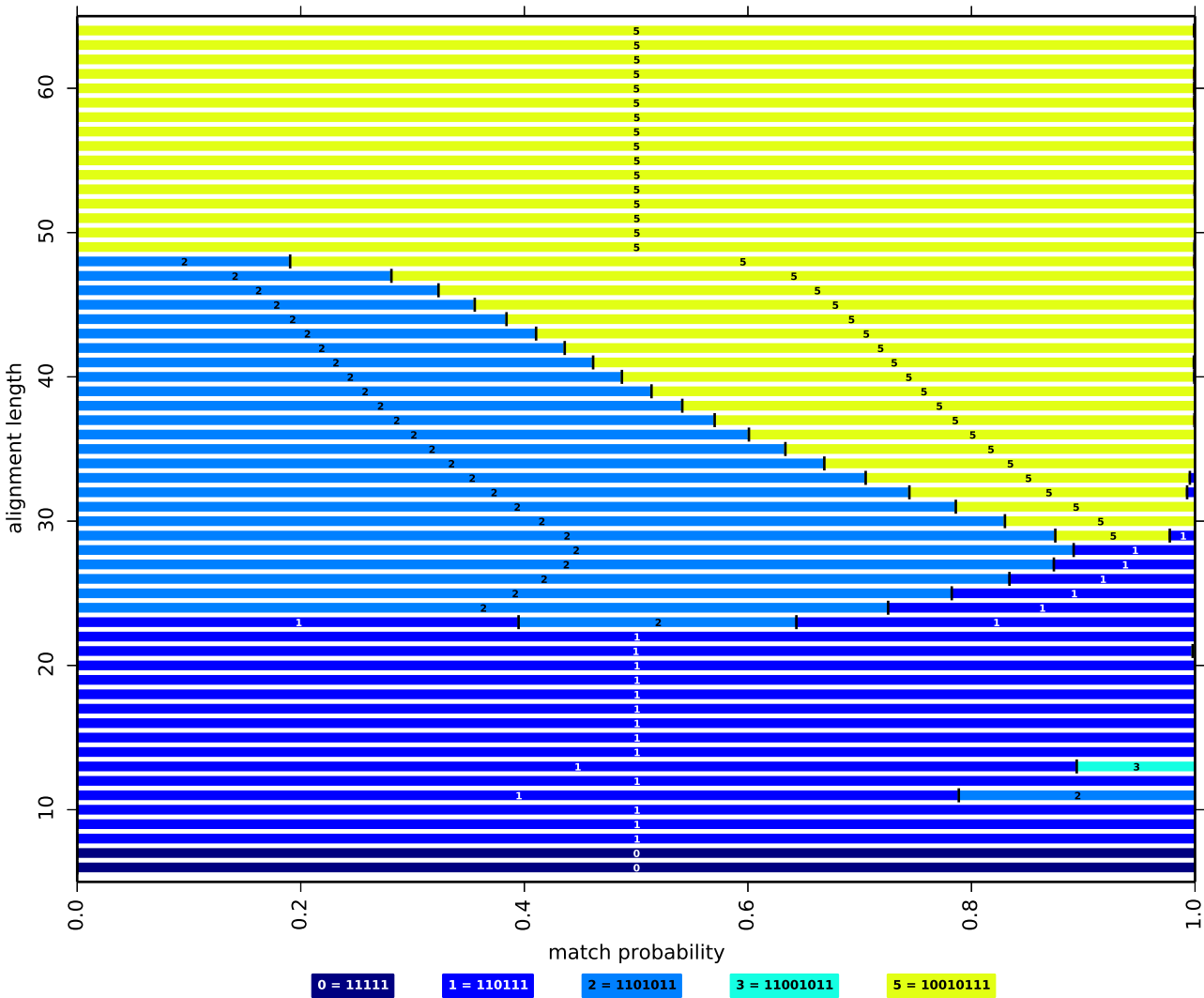
Bernoulli (n:1,w:5)



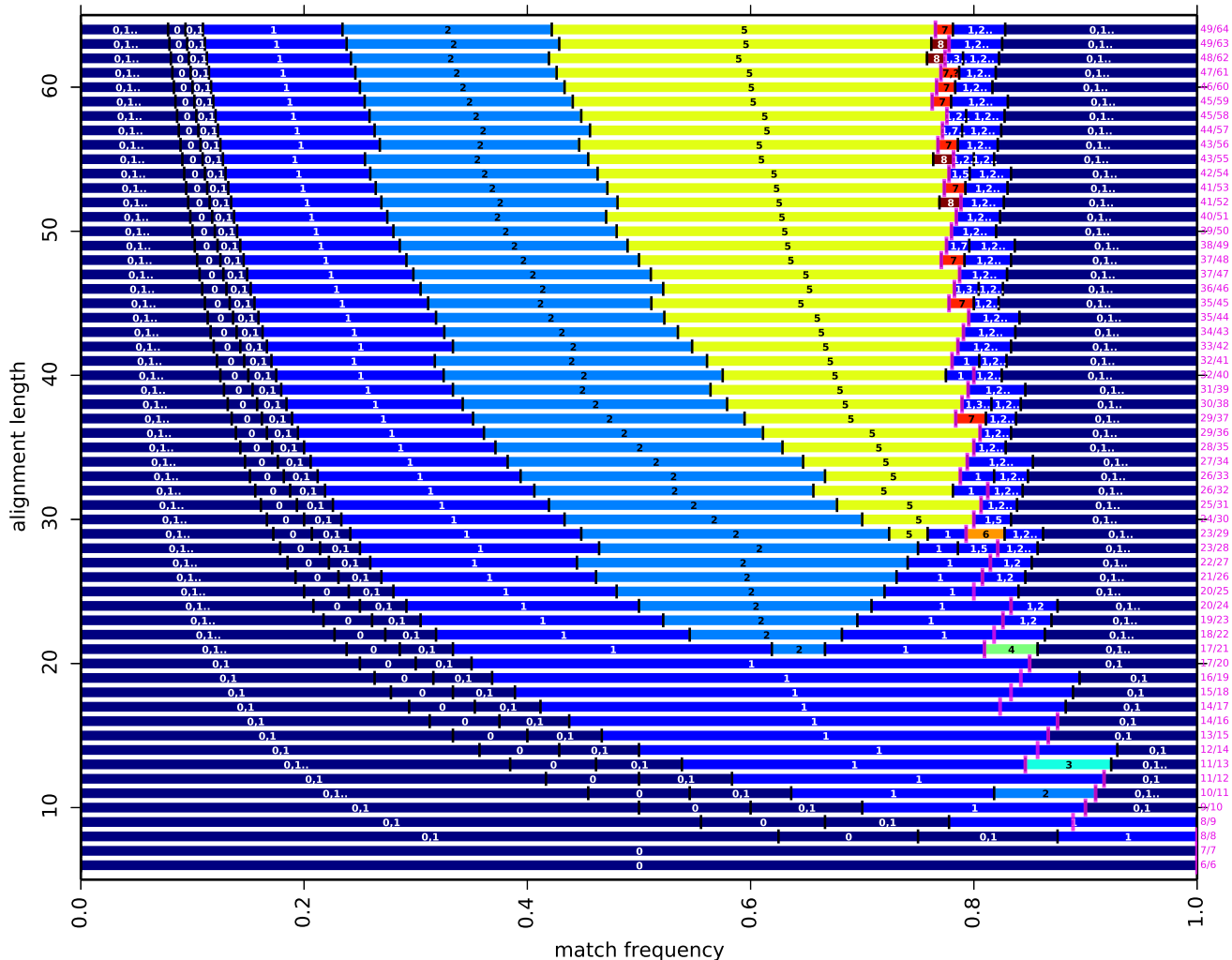
\int_0^x Hit Integration (n:1,w:5)



\int_x^1 Hit Integration (n:1,w:5)

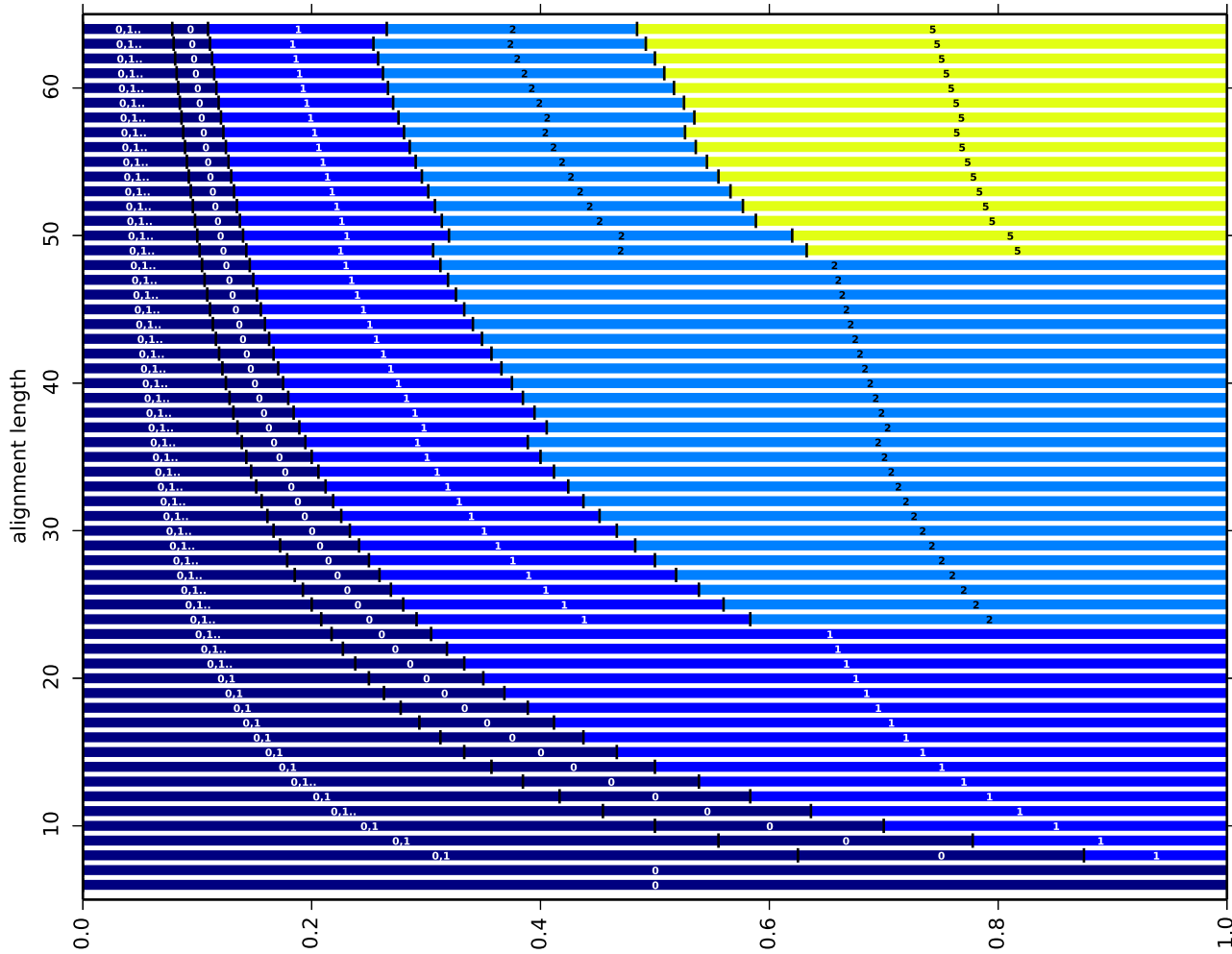


Dirac (n:1,w:5)



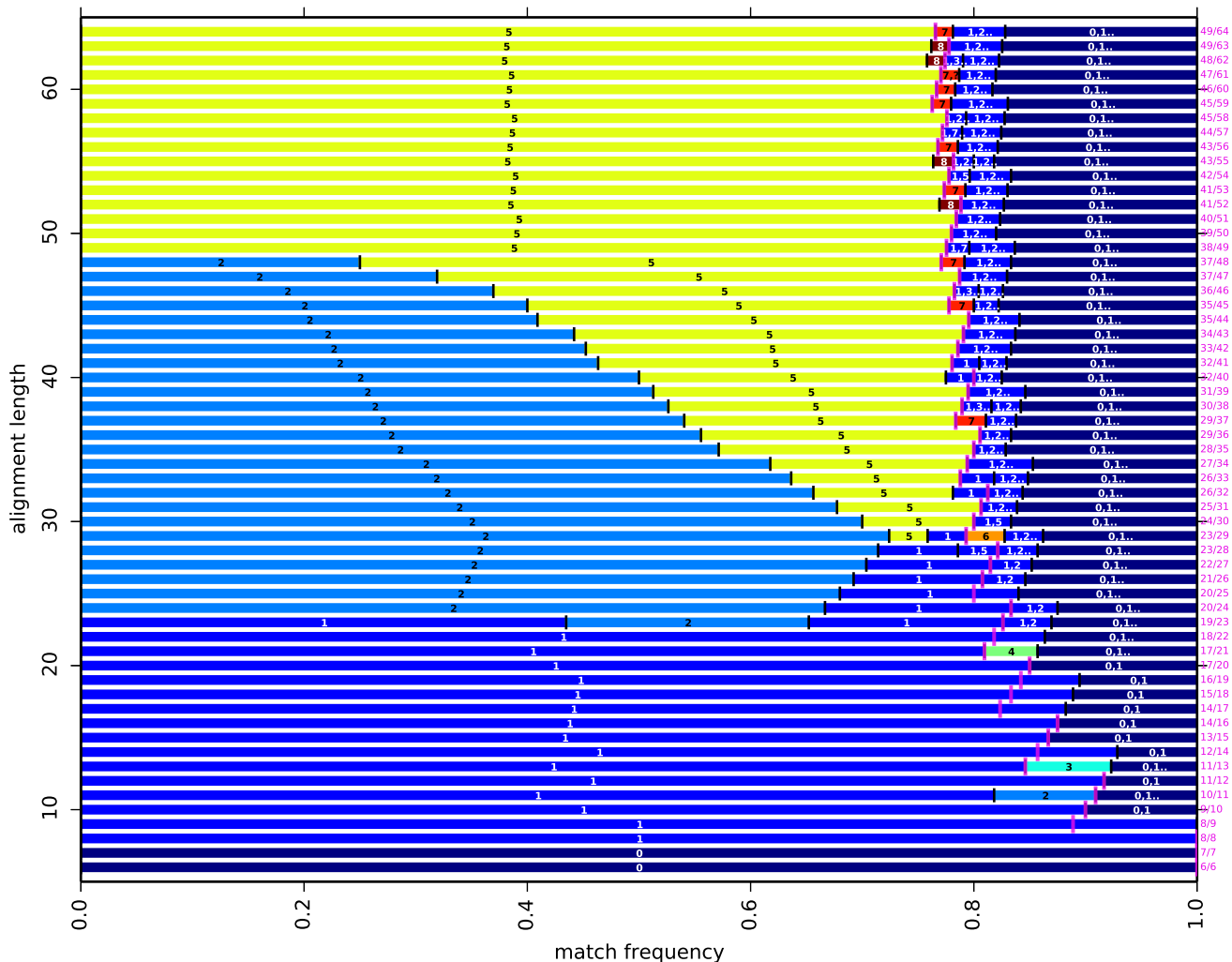
0 = 11111 1 = 110111 2 = 1101011 3 = 11001011 4 = 110000100011 5 = 10010111 6 = 1100000010000011 7 = 100100111 8 = 101000011

$$\sum_0^x \text{Heaviside}(n:1,w:5)$$



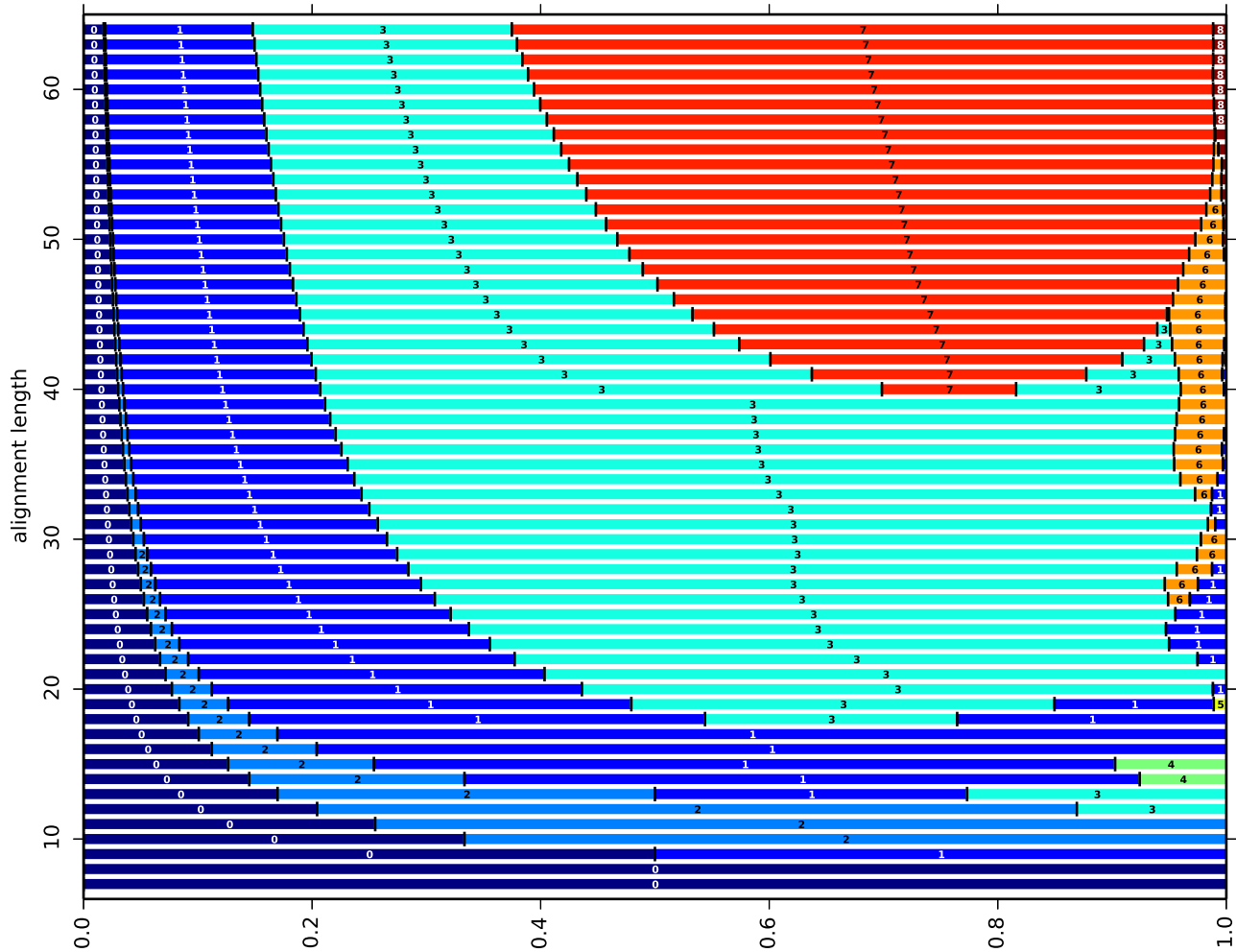
- 0 = 11111
- 1 = 110111
- 2 = 1101011
- 3 = 11001011
- 4 = 110000100011
- 5 = 10010111
- 6 = 1100000010000011
- 7 = 100100111
- 8 = 101000111

$$\sum_x^1 \text{Heaviside}(n:1,w:5)$$



- 0 = 11111
- 1 = 110111
- 2 = 1101011
- 3 = 11001011
- 4 = 110000100011
- 5 = 10010111
- 6 = 1100000010000011
- 7 = 100100111
- 8 = 101000111

Bernoulli (n:1,w:6)



0 = 111111
1 = 1101111

2 = 1110111

3 = 11010111

4 = 110100111

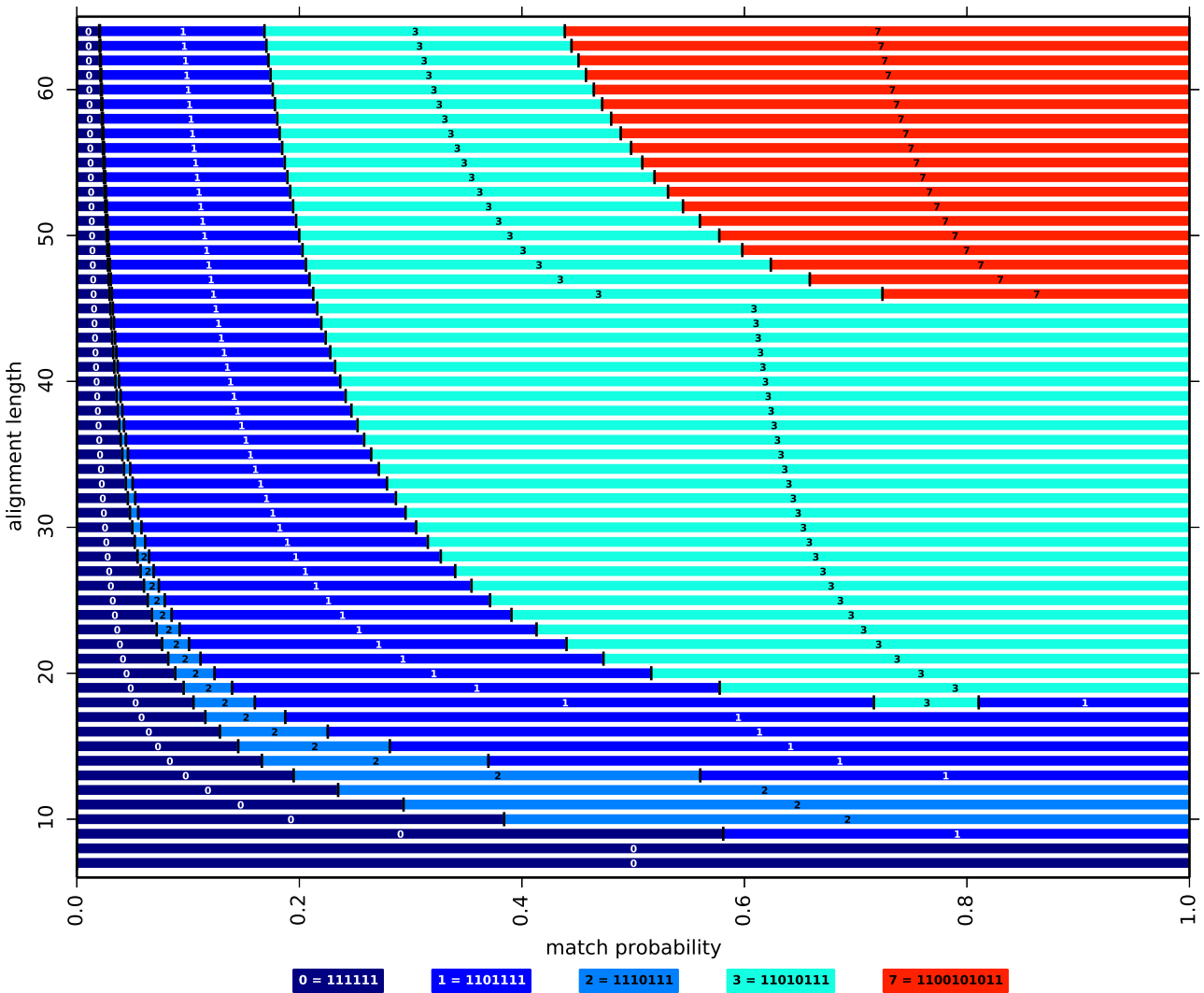
5 = 1011100001011

6 = 10110111

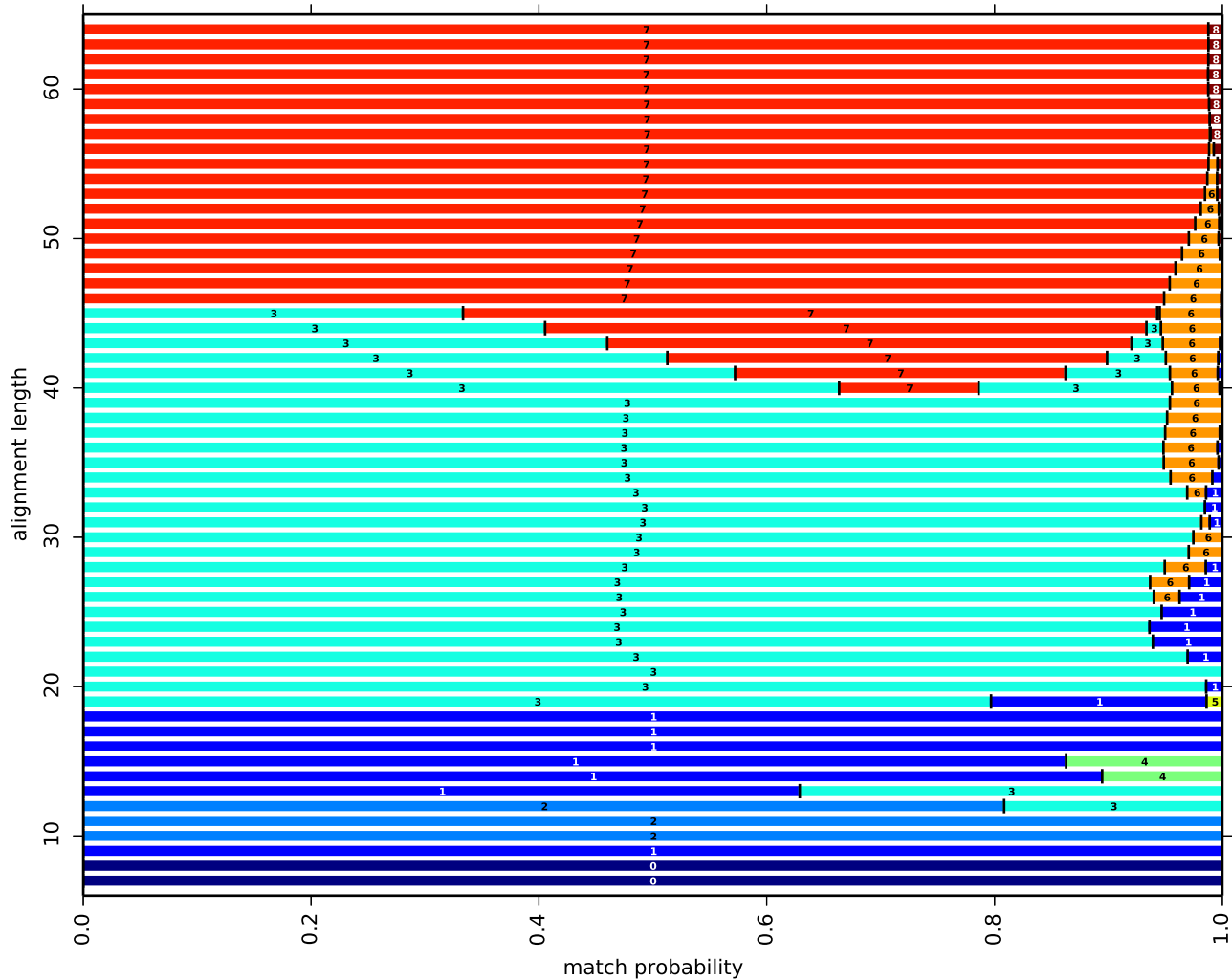
7 = 1100101011

8 = 1001010111

\int_0^x Hit Integration (n:1,w:6)



\int_x^1 Hit Integration (n:1,w:6)



0 = 111111
1 = 1101111

2 = 1110111

3 = 11010111

4 = 110100111

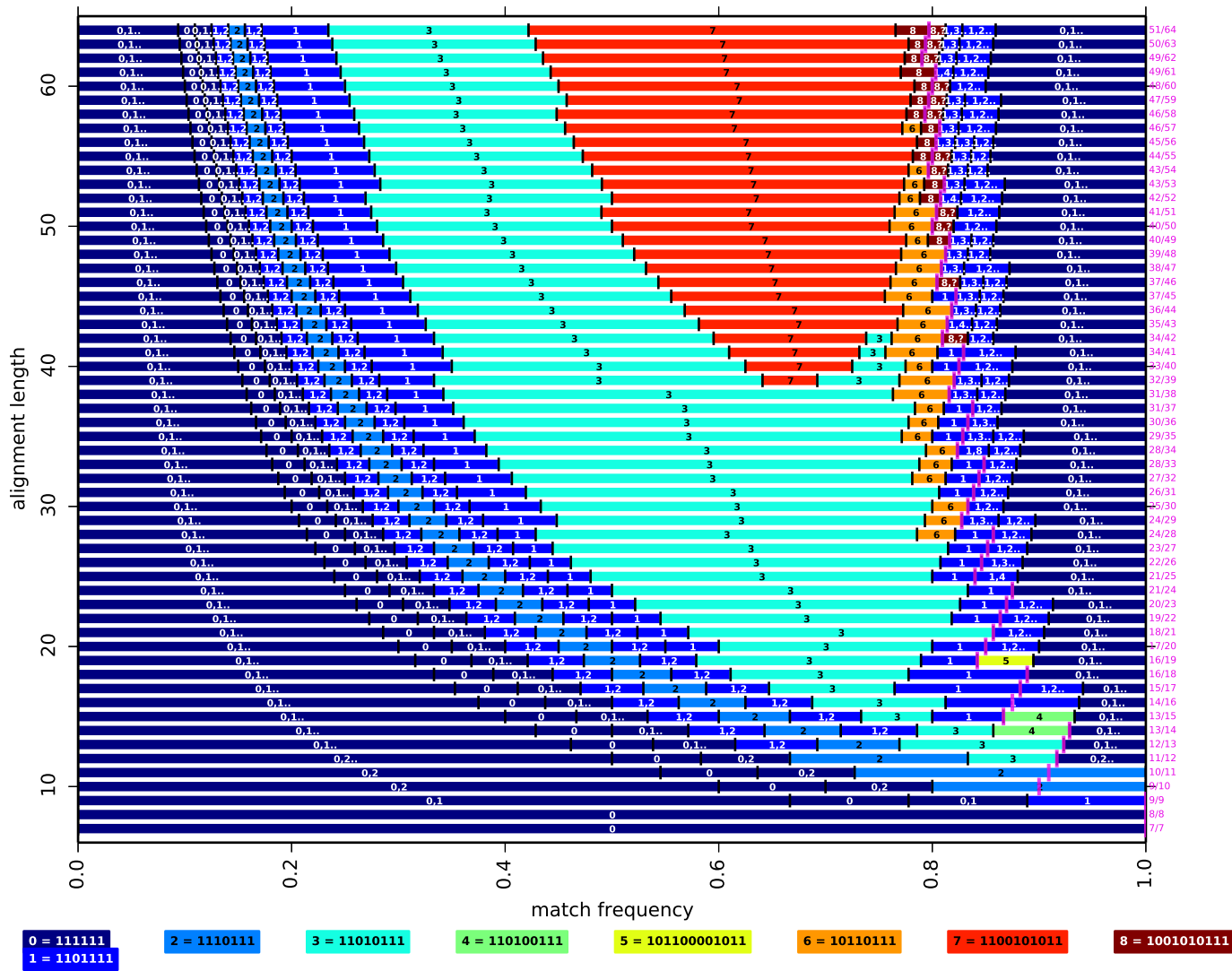
5 = 101100001011

6 = 10110111

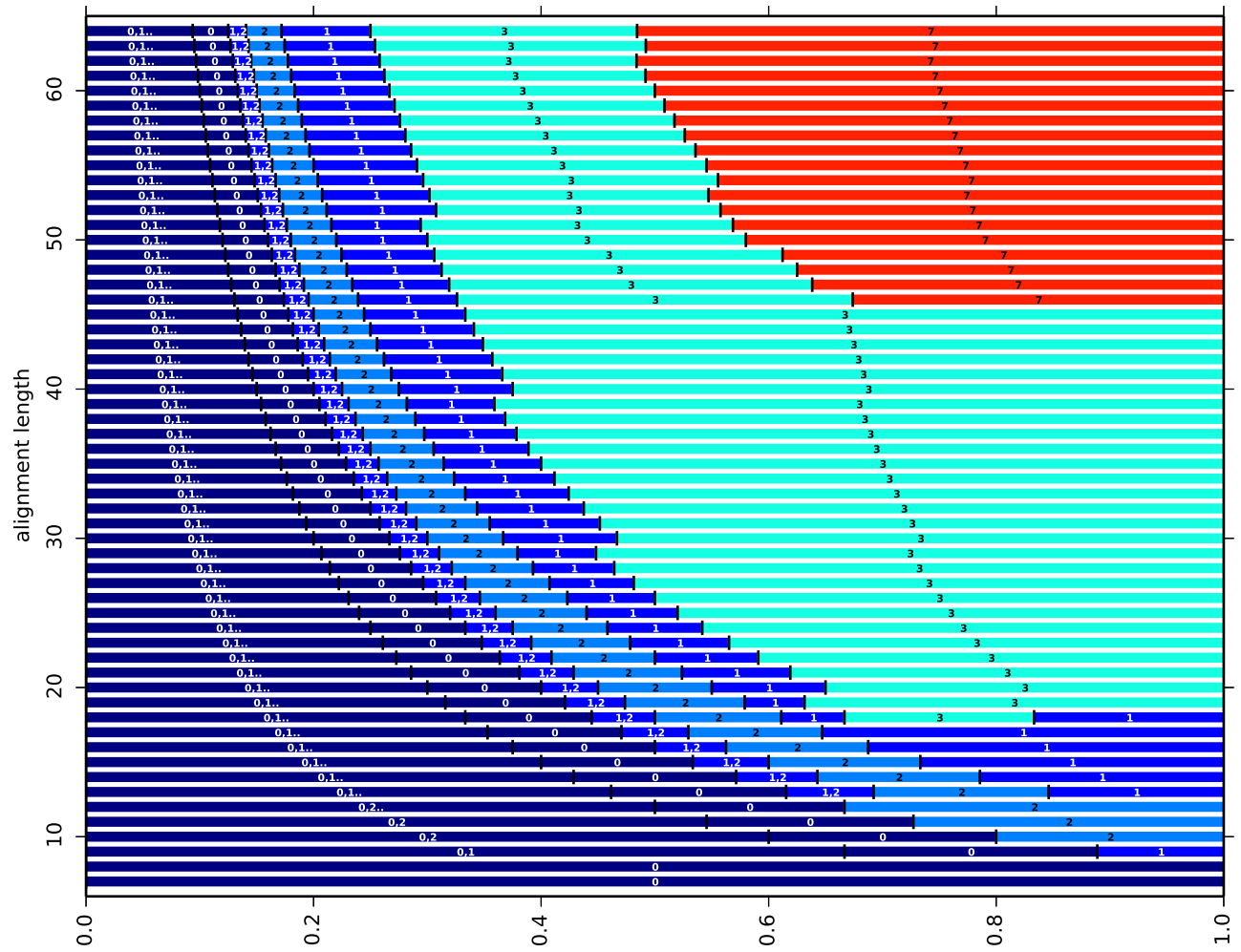
7 = 1100101011

8 = 1001010111

Dirac (n:1,w:6)

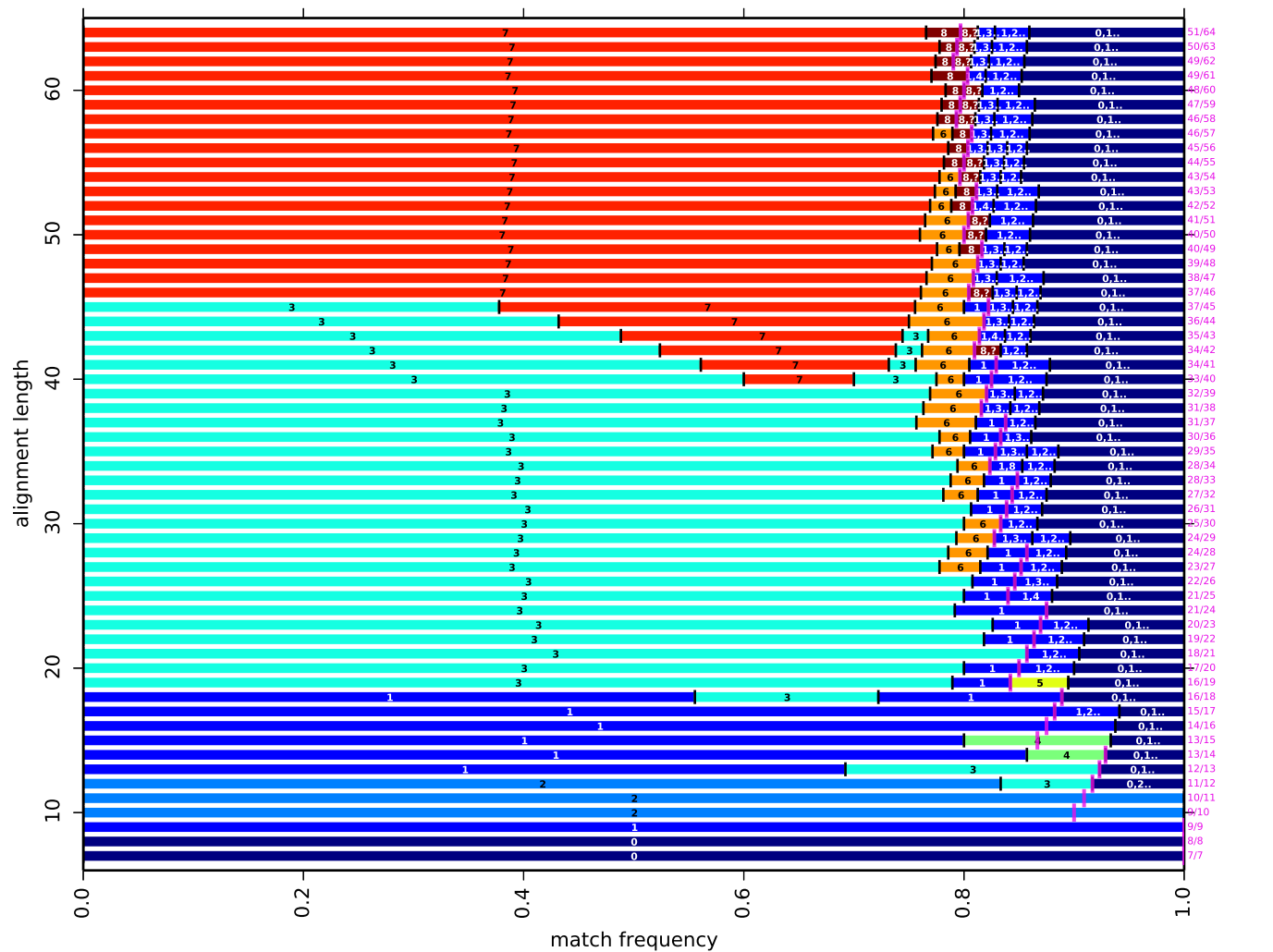


$$\sum_0^x \text{Heaviside}(n;1,w:6)$$



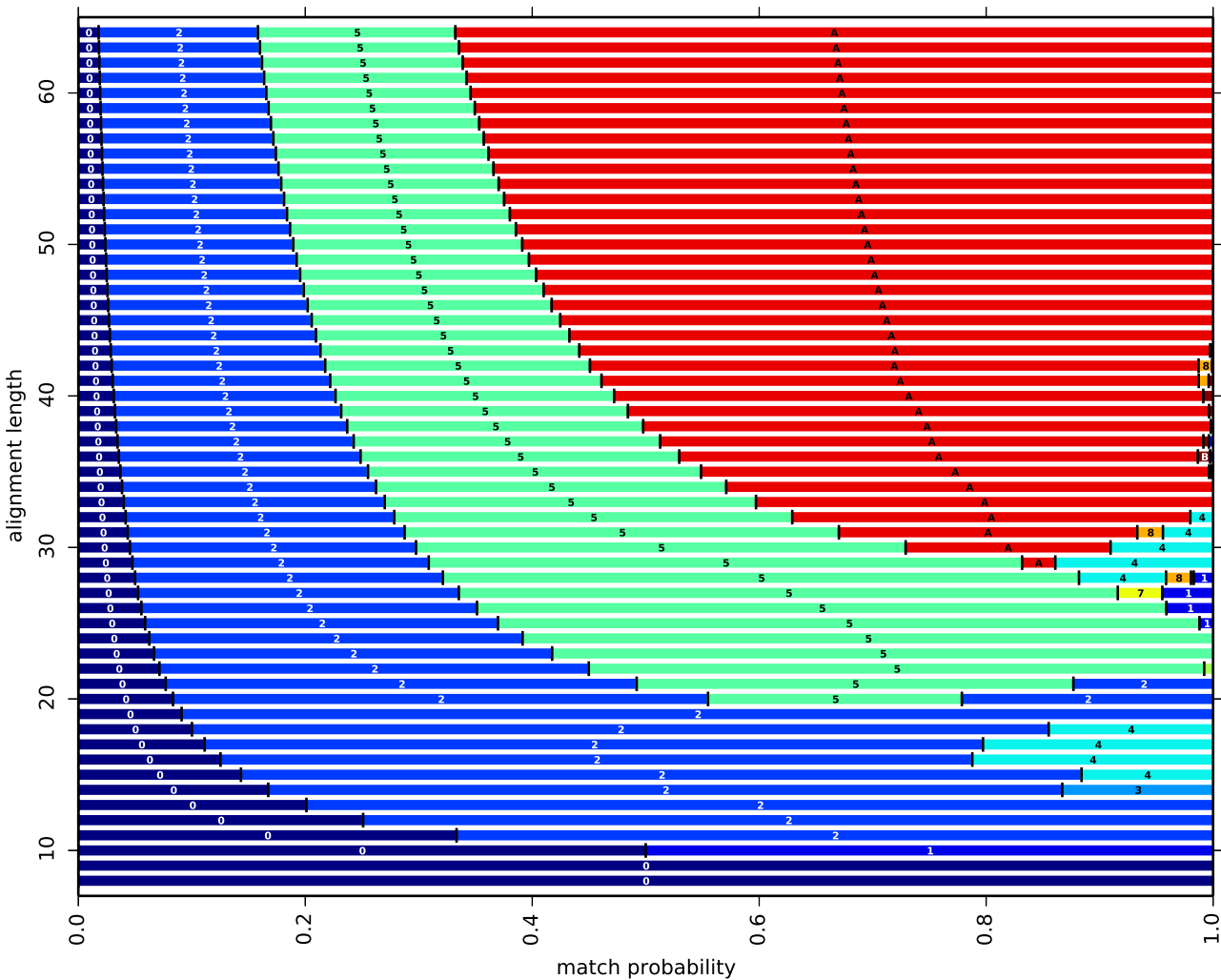
- 0 = 111111
- 1 = 1101111
- 2 = 11101111
- 3 = 110101111
- 4 = 1101001111
- 5 = 10111000010111
- 6 = 1011101111
- 7 = 11001010111
- 8 = 10010101111

$$\sum_x^1 \text{Heaviside}(n:1,w:6)$$



- 0 = 111111
- 1 = 1101111
- 2 = 11101111
- 3 = 110101111
- 4 = 1101001111
- 5 = 101110001011
- 6 = 1011101111
- 7 = 1100101011
- 8 = 1001010111

Bernoulli (n:1,w:7)



0 = 1111111
1 = 1101111

2 = 1110111
3 = 11101011

4 = 111001011
5 = 11011011

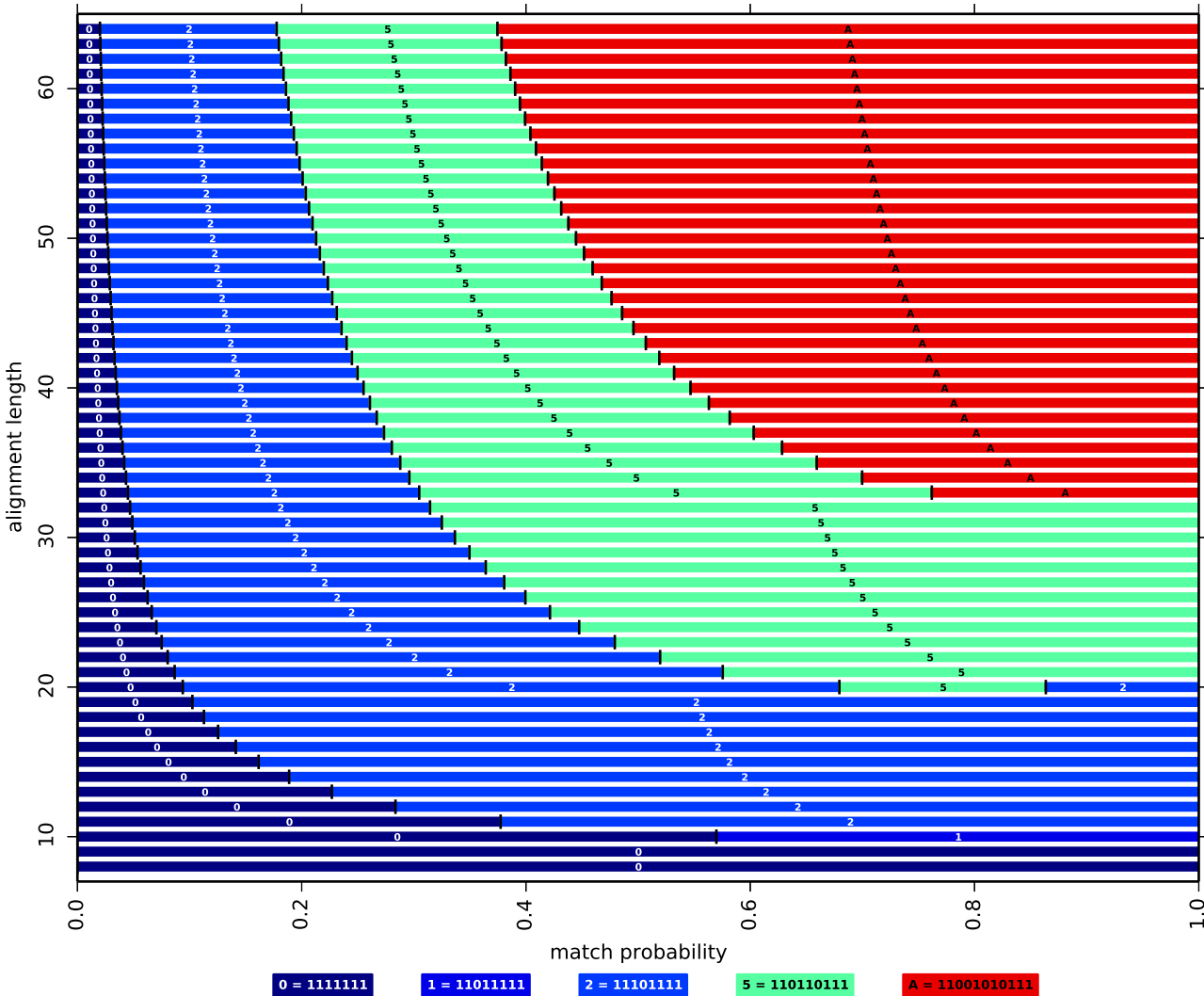
7 = 11010111

8 = 10111001011

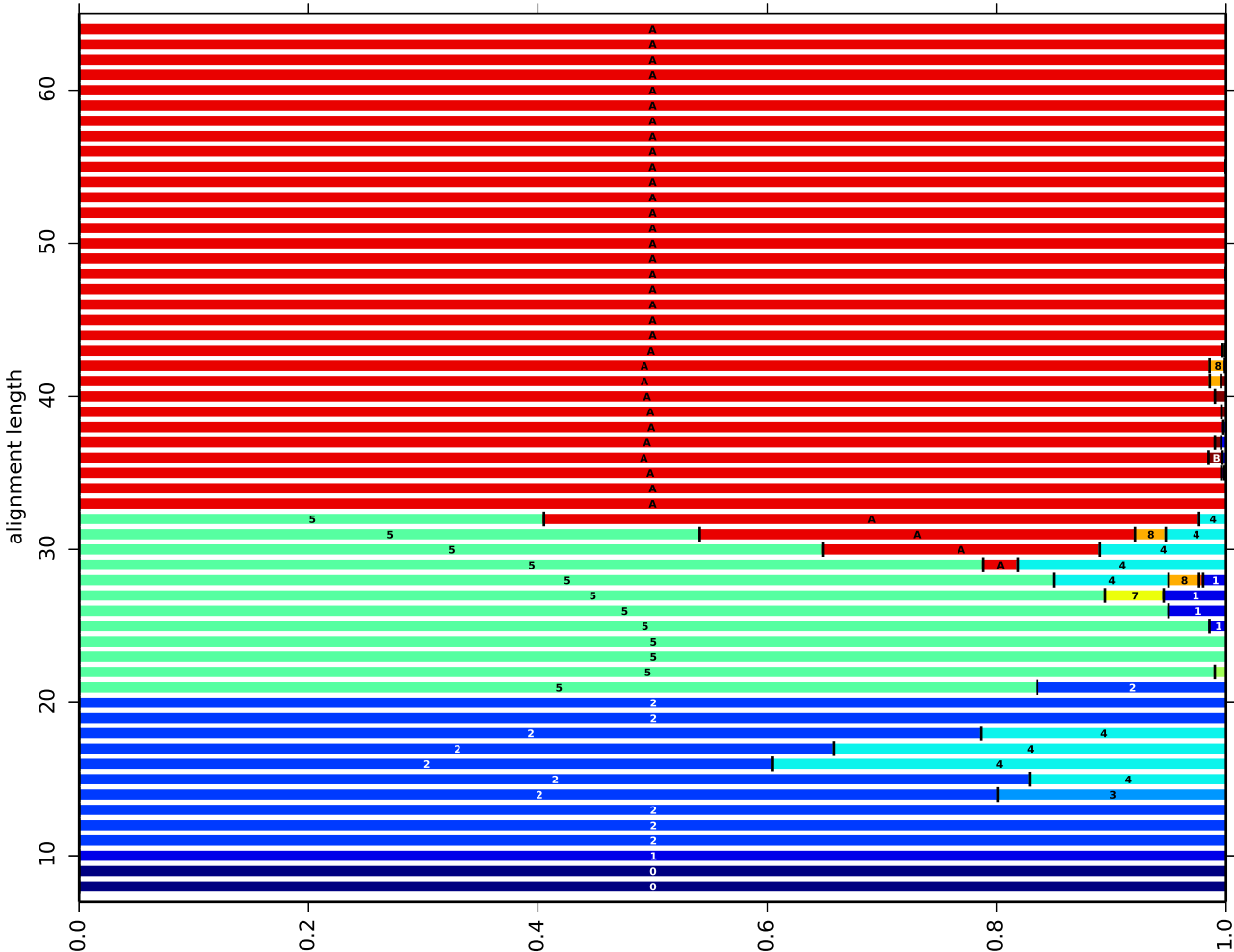
A = 1100101011

B = 1001101011

\int_0^x Hit Integration (n:1,w:7)

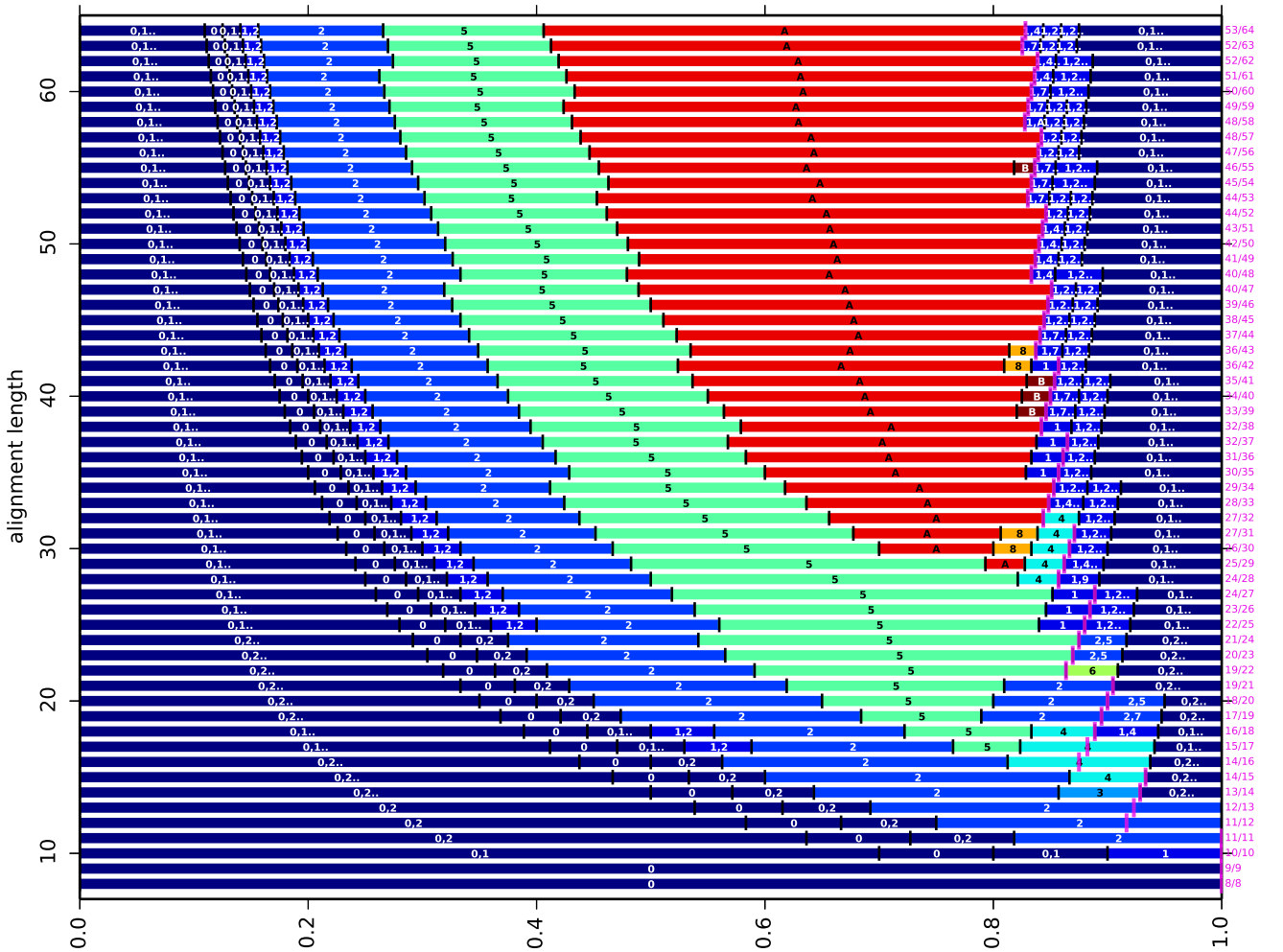


\int_x^1 Hit Integration (n:1,w:7)



- 0 = 1111111
- 1 = 1101111
- 2 = 1110111
- 3 = 111010111
- 4 = 1110010111
- 5 = 110110111
- 7 = 110101111
- 8 = 10111001011
- A = 11001010111
- B = 10011010111

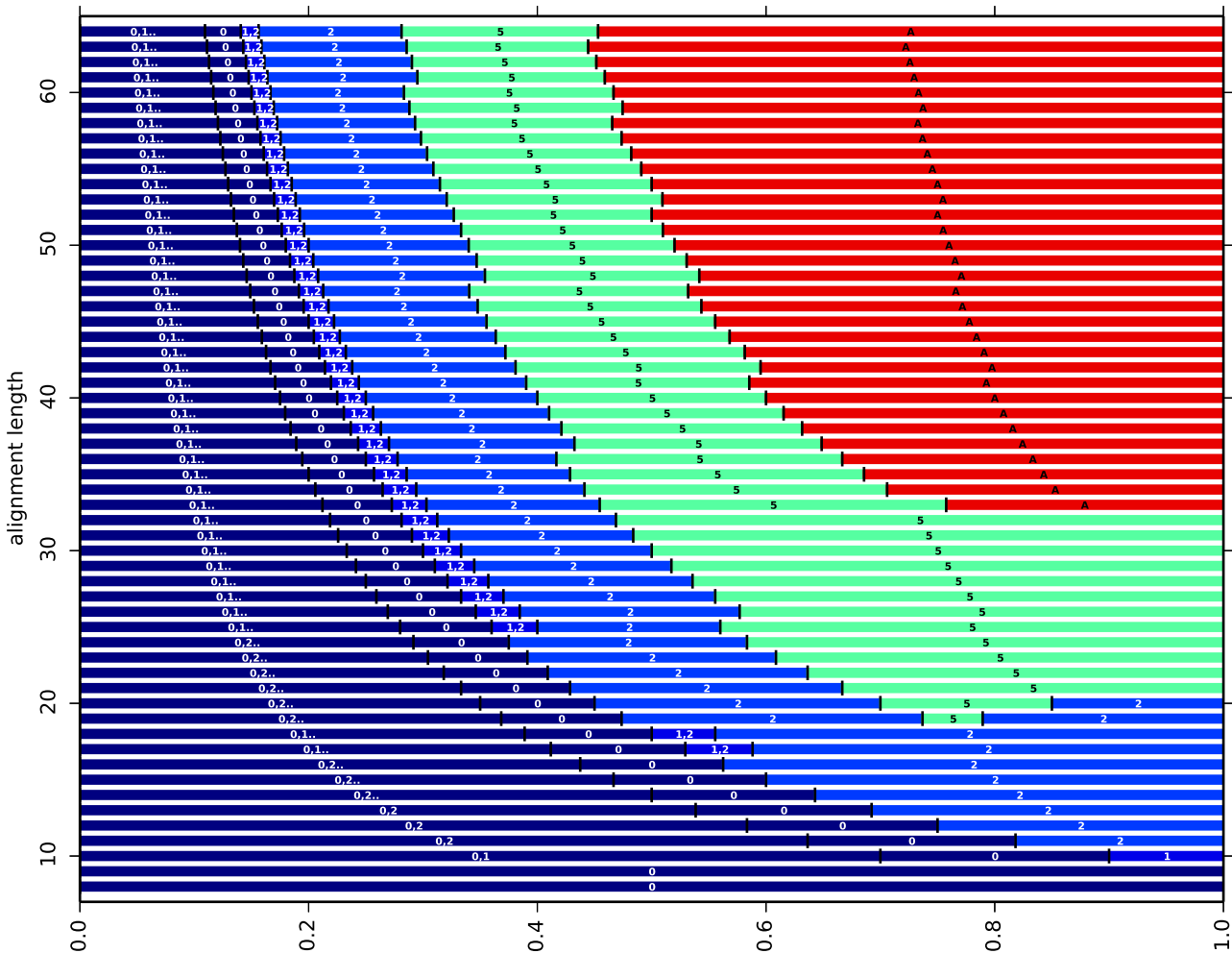
Dirac (n:1;w:7)



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8/8

match frequency

$$\sum_0^x \text{Heaviside}(n:1,w:7)$$



match frequency

0 = 1111111
1 = 1101111

2 = 11101111
3 = 111010111

4 = 1110010111
5 = 110110111

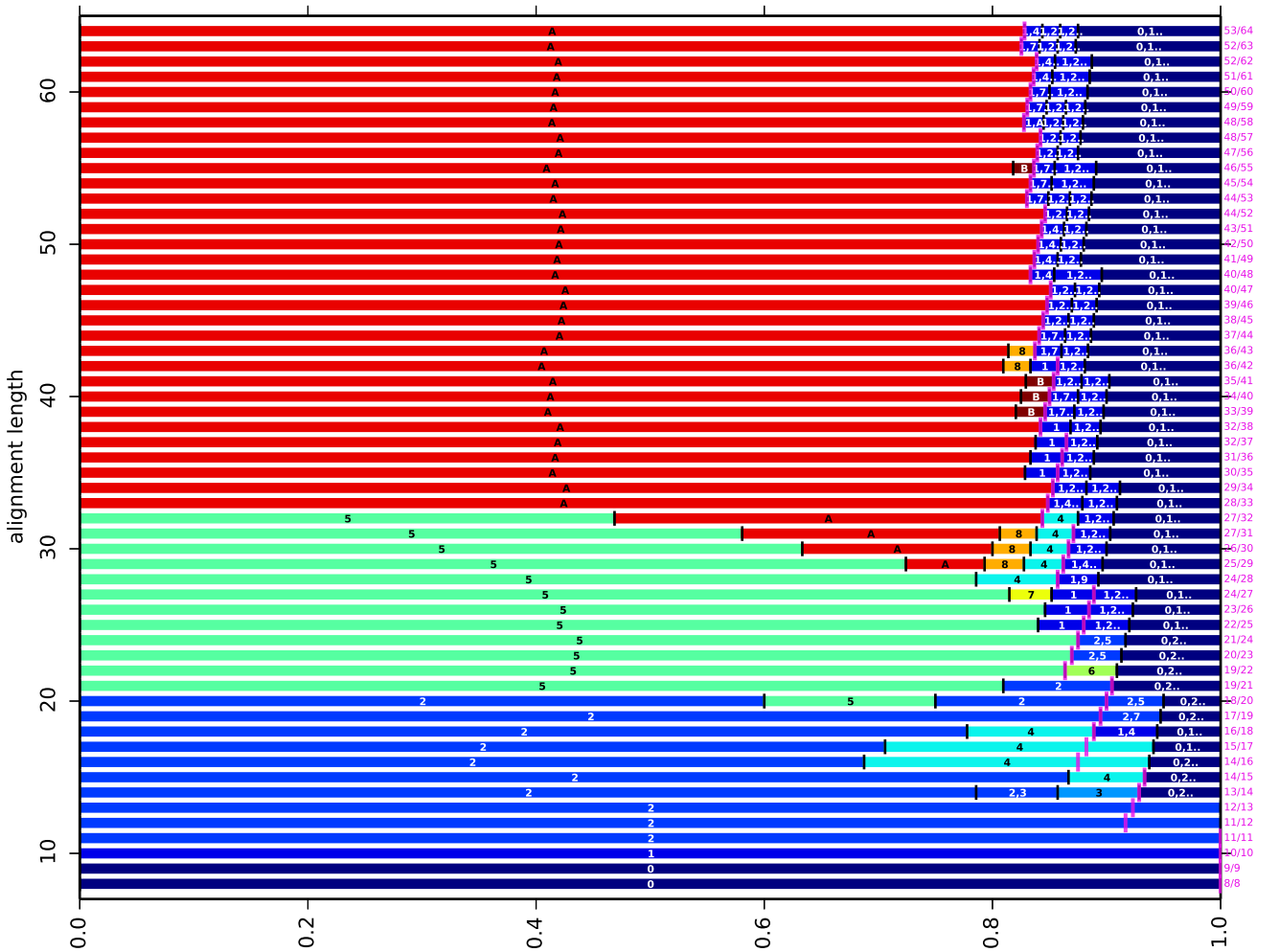
6 = 1110000100111
7 = 110101111

8 = 10111001011
9 = 10110010111

A = 11001010111

B = 10011010111

$$\sum_x^1 \text{Heaviside}(n:1,w:7)$$



match frequency

0 = 1111111
1 = 1101111

2 = 1110111
3 = 11101011

4 = 111001011
5 = 11011011

6 = 111000010011
7 = 11010111

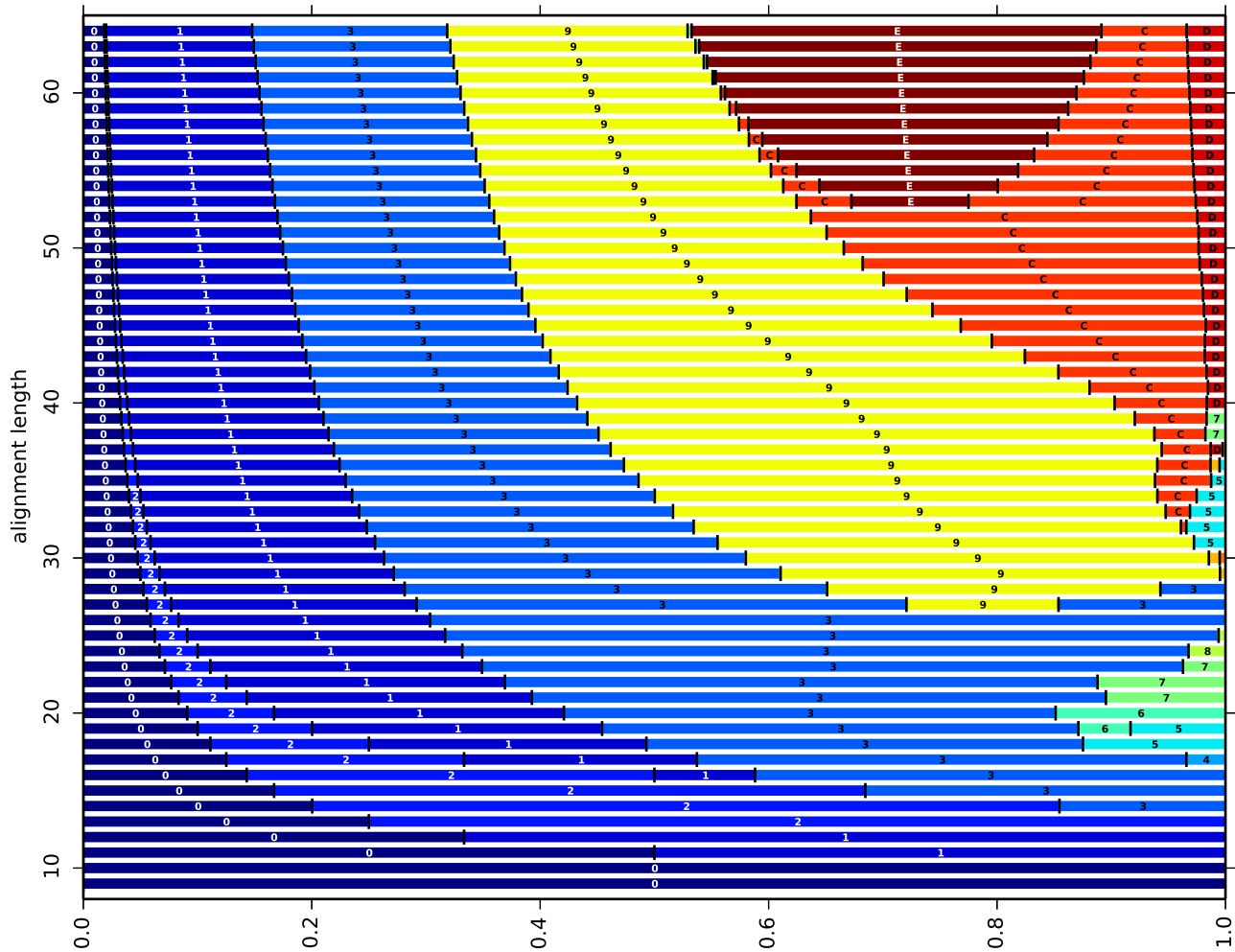
8 = 10111001011
9 = 1011001011

A = 1100101011

B = 1001101011

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Bernoulli (n:1,w:8)



0 = 11111111
1 = 11101111

2 = 11110111
3 = 1110110111

4 = 11101001111
5 = 101110010111

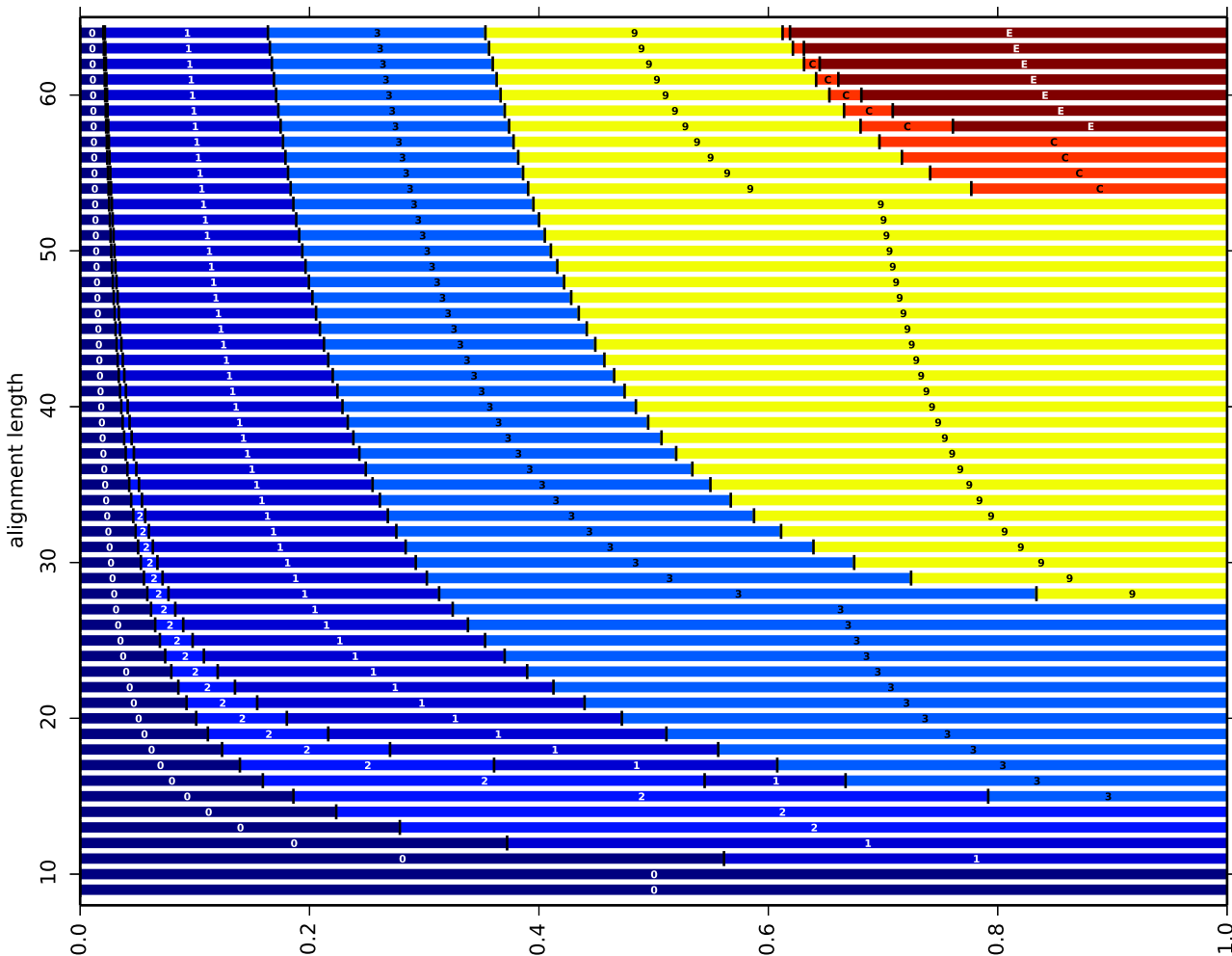
6 = 111010010111
7 = 1110010010111

8 = 11100010010111
9 = 11011010111

C = 110010101111
D = 100110101111

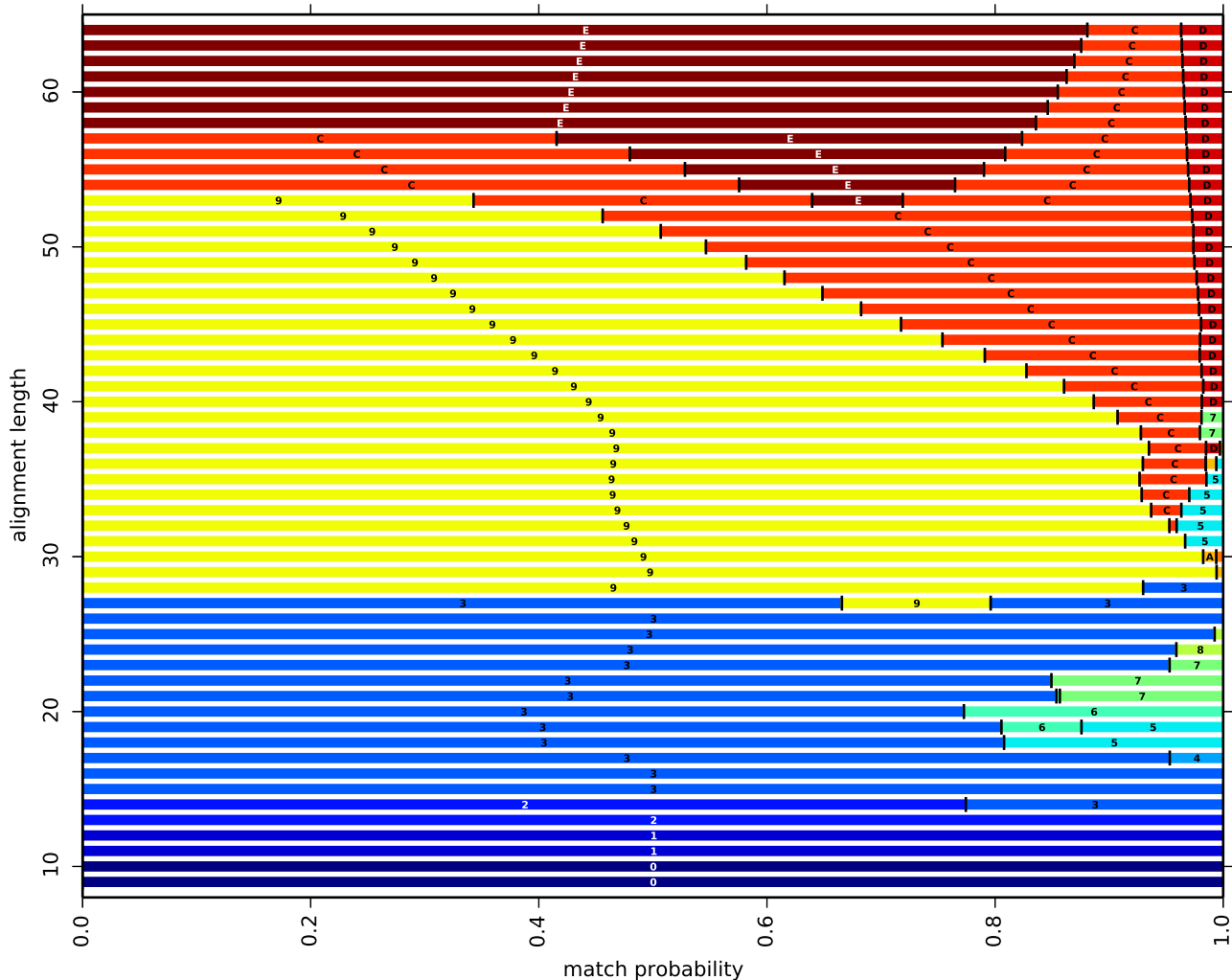
E = 11001001010111

\int_0^x Hit Integration (n:1,w:8)



- 0 = 11111111
- 1 = 11101111
- 2 = 11110111
- 3 = 11101011
- 9 = 1101101011
- C = 11001010111
- E = 1100100101011

\int_x^1 Hit Integration (n:1,w:8)



0 = 11111111
1 = 11101111

2 = 11110111
3 = 1110110111

4 = 1110100111
5 = 101110010111

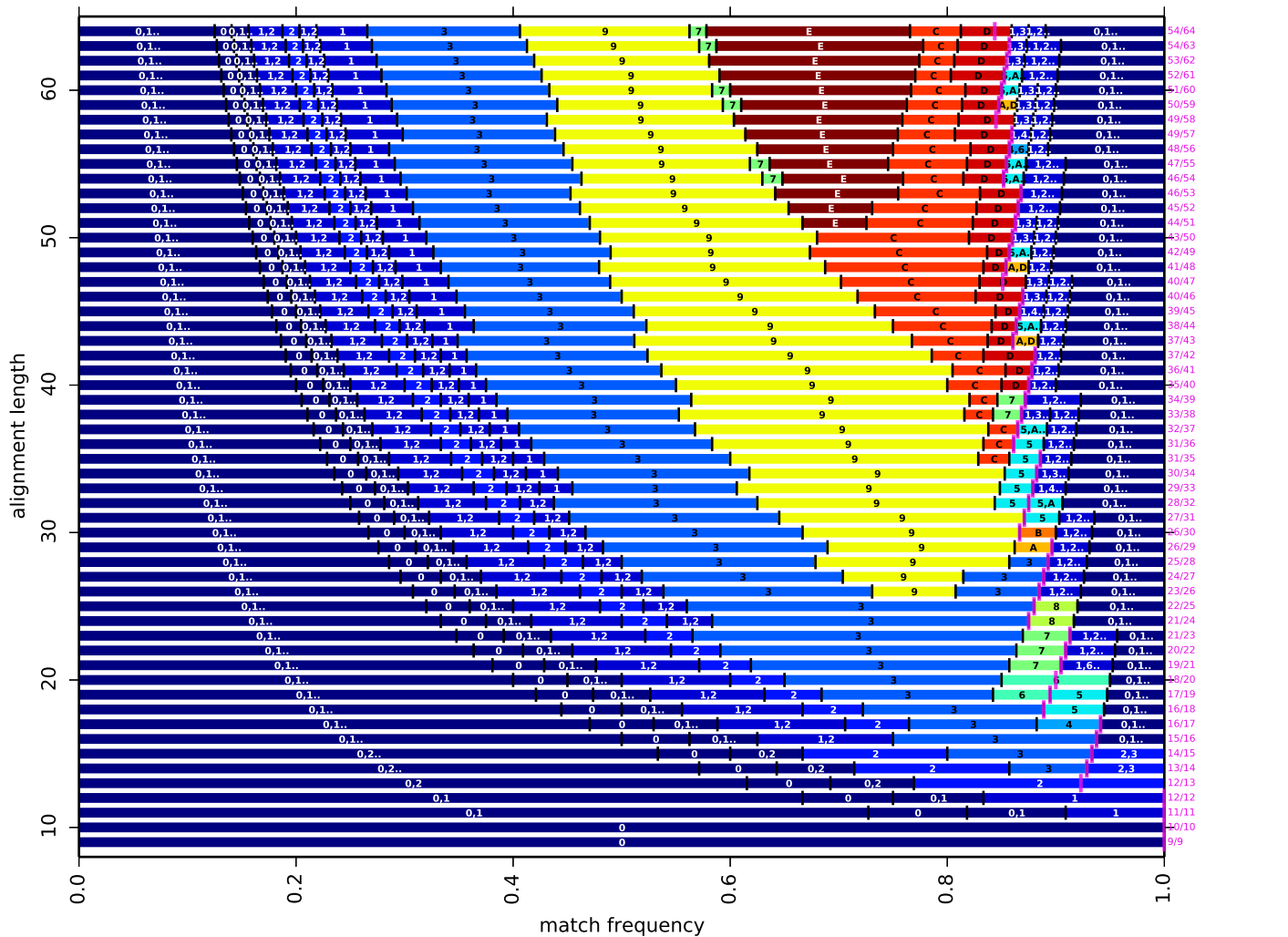
6 = 111010010111
7 = 1110010010111

8 = 11100010010111
9 = 11011010111

A = 1011101111
C = 110010101111

D = 100110101111
E = 11001001010111

Dirac (n:1,w:8)



0 = 11111111
1 = 111011111
2 = 11110111

3 = 1110110111
4 = 11101001111

5 = 101110010111
6 = 111010010111

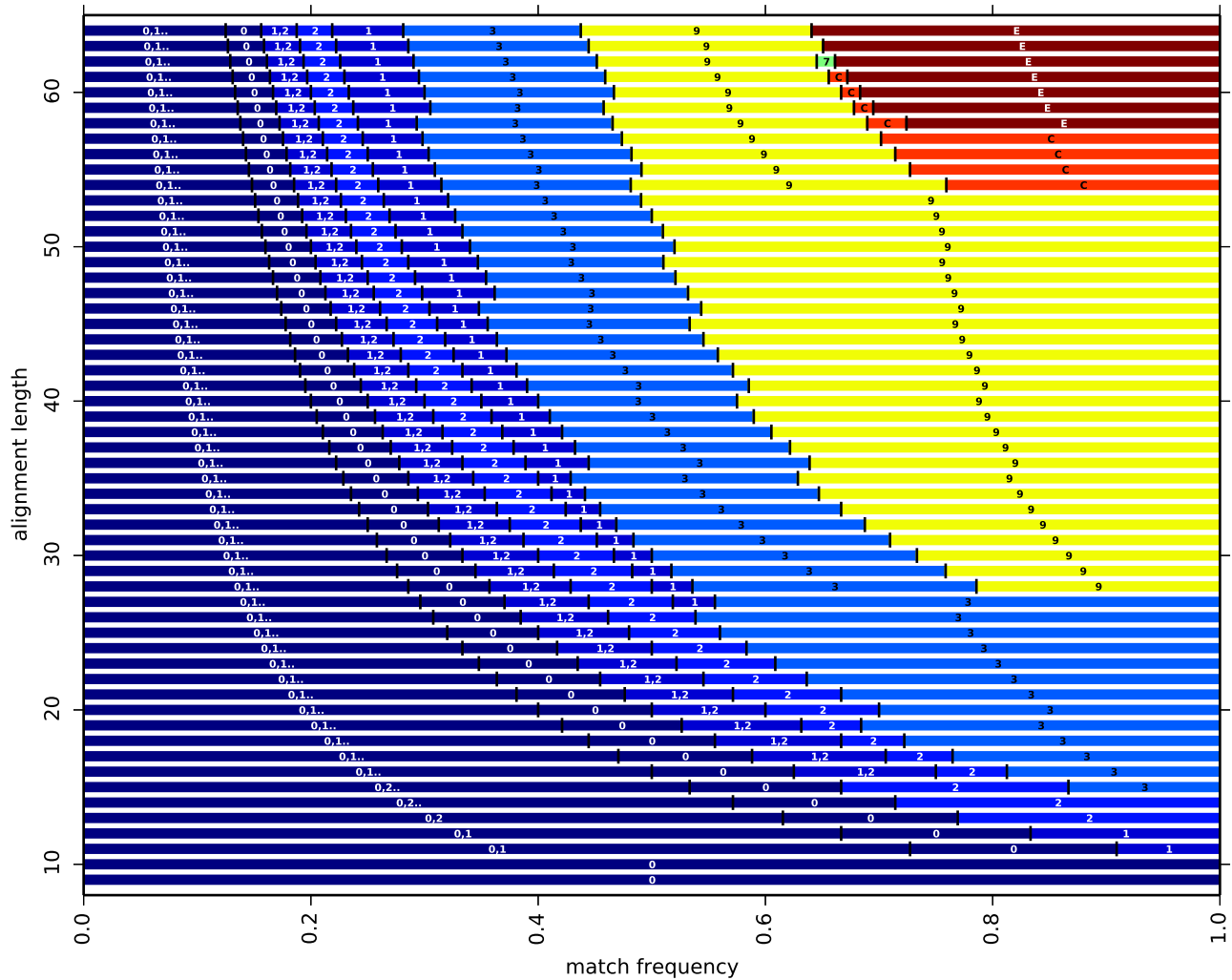
7 = 1110010010111
8 = 11100010010111

9 = 11011010111
A = 1011101111

B = 10111000000010111
C = 110010101111

D = 100110101111
E = 11001001010111

$$\sum_0^x \text{Heaviside}(n:1,w:8)$$



0 = 11111111
1 = 111011111
2 = 111101111

3 = 1110110111
4 = 11101001111

5 = 101110010111
6 = 111010010111

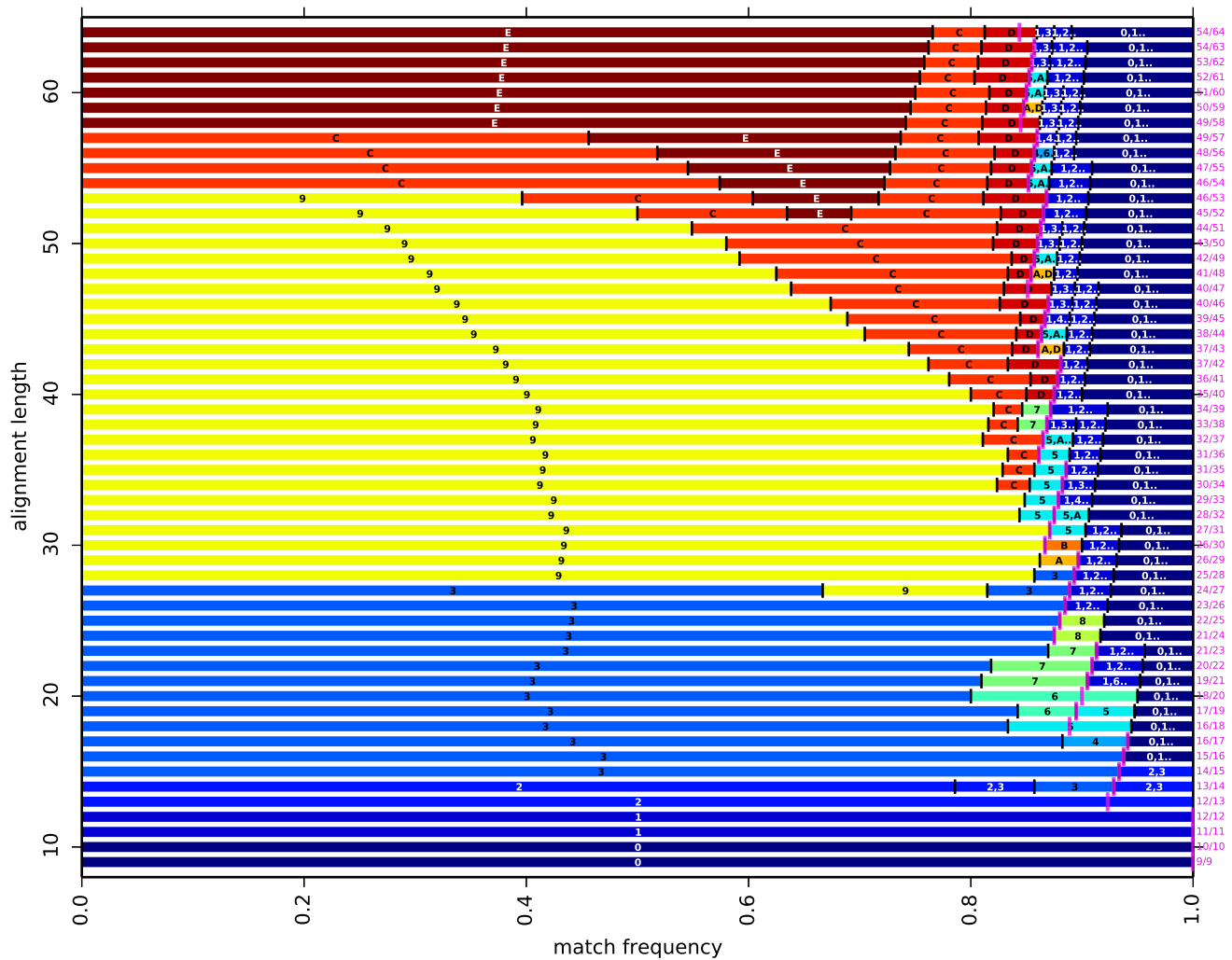
7 = 1110010010111
8 = 11100010010111

9 = 11011010111
A = 1011101111

B = 10111000000010111
C = 110010101111

D = 100110101111
E = 11001001010111

$$\sum_x \text{Heaviside}(n:1,w:8)$$



0 = 11111111
1 = 111011111
2 = 111101111

3 = 1110110111
4 = 11101001111

5 = 101110010111
6 = 111010010111

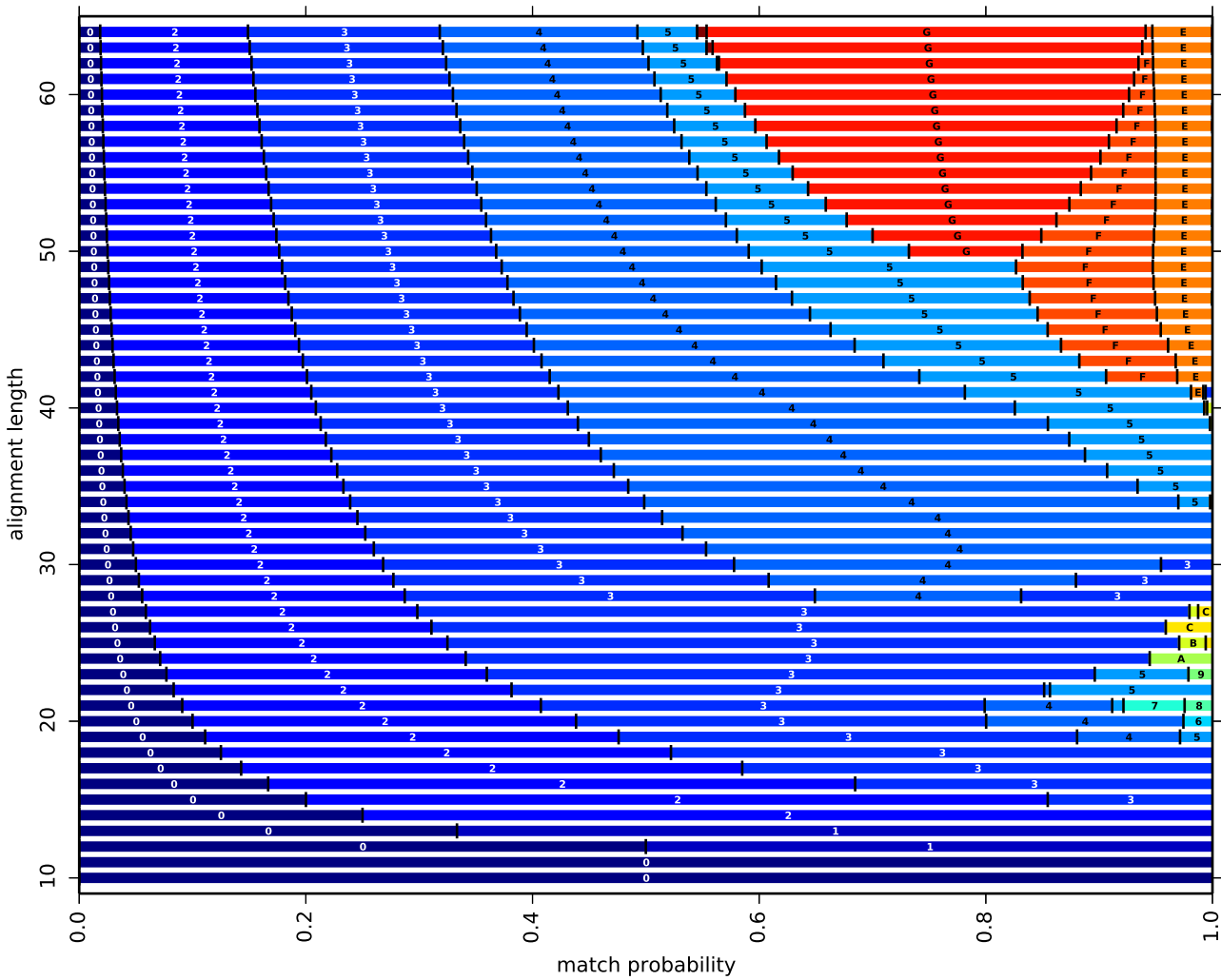
7 = 1110010010111
8 = 11100010010111

9 = 11011010111
A = 1011101111

B = 10111000000010111
C = 110010101111

D = 100110101111
E = 11001001010111

Bernoulli (n:1,w:9)



0 = 111111111
 1 = 111011111
 2 = 111011111

3 = 111010111
 4 = 111010111
 5 = 1110010111

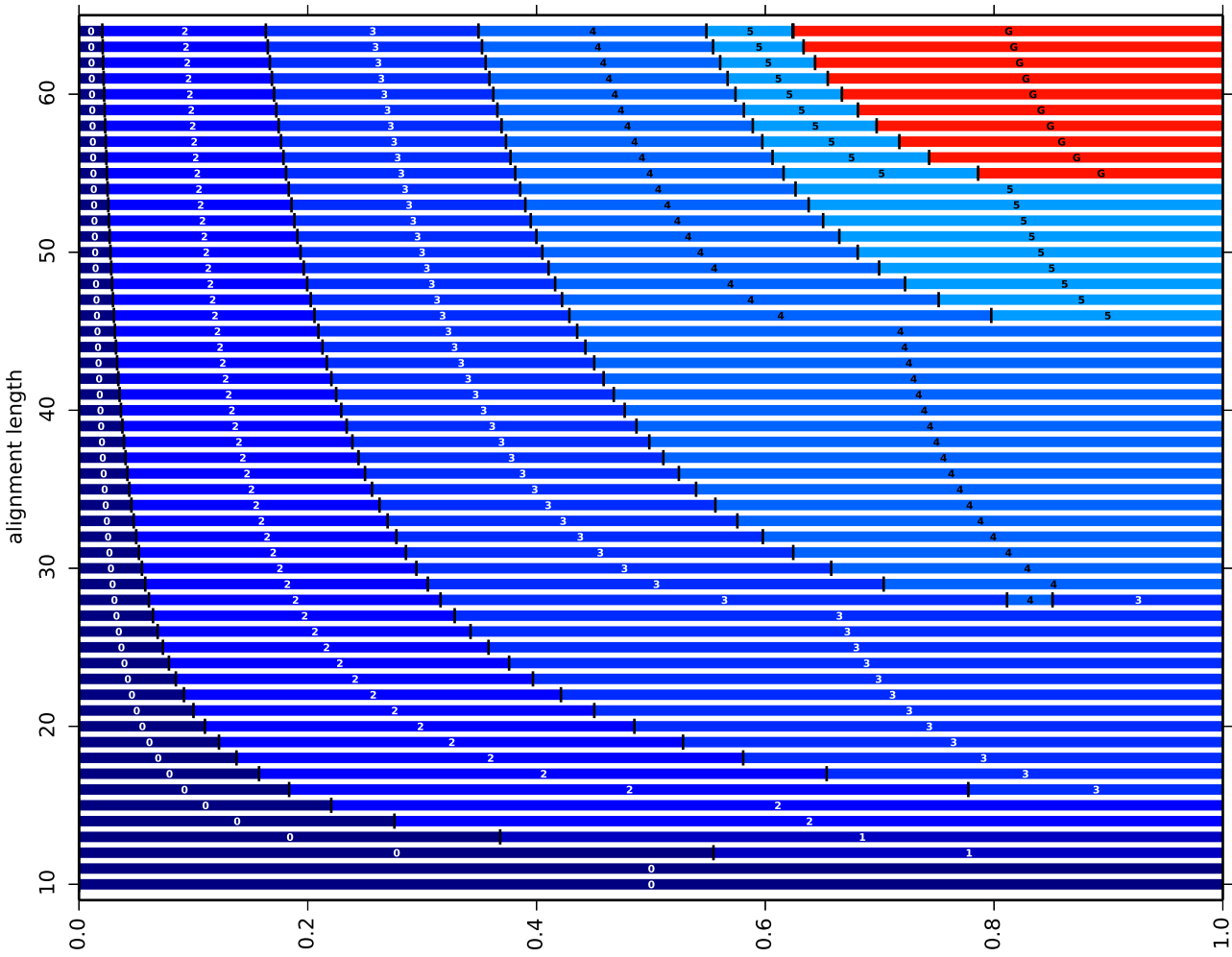
6 = 101111001011
 7 = 111010100111
 8 = 111100100111

9 = 1110100100111
 A = 1011100100111
 B = 11011101111

C = 101110001001011
 E = 1101001110111

F = 1100110101111
 G = 110110101000111

\int_0^x Hit Integration (n:1,w:9)



0 = 111111111
1 = 111011111

2 = 111101111

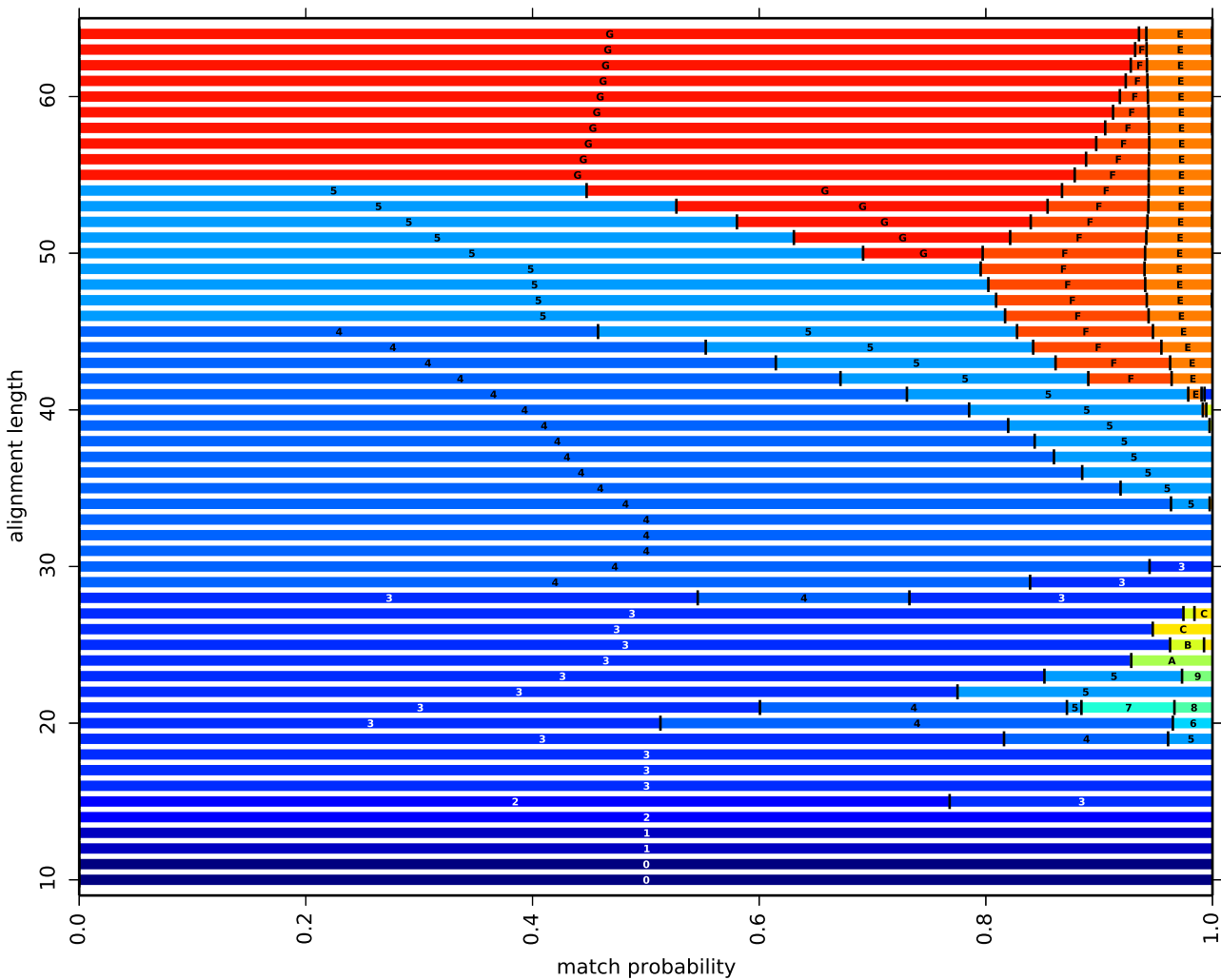
3 = 1110110111

4 = 11101011011

5 = 1110010110111

G = 110110101000111

\int_x^1 Hit Integration (n:1,w:9)



0 = 111111111
 1 = 1110111111
 2 = 111011111

3 = 11101101111
 4 = 111010110111
 5 = 1110010110111

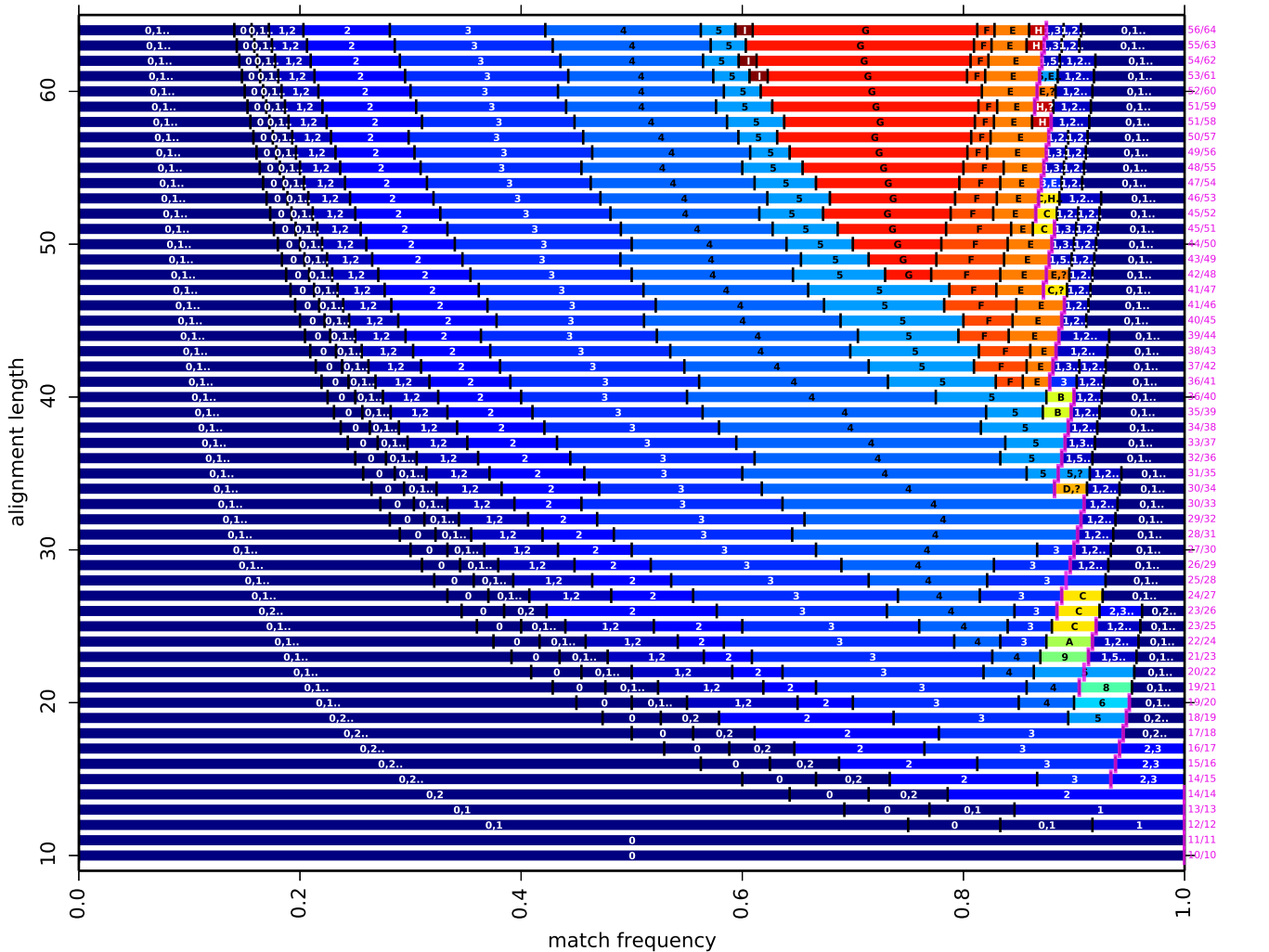
6 = 1011110010111
 7 = 1110101001111
 8 = 1111001001111

9 = 11101001001111
 A = 101110010010111
 B = 11011101111

C = 1011100010010111
 E = 1101001110111

F = 1100110101111
 G = 110110101000111

Dirac (n:1,w:9)



0 = 111111111
 1 = 111011111
 2 = 111101111
 3 = 11101101111

4 = 111010110111
 5 = 1110010110111
 6 = 1011110010111

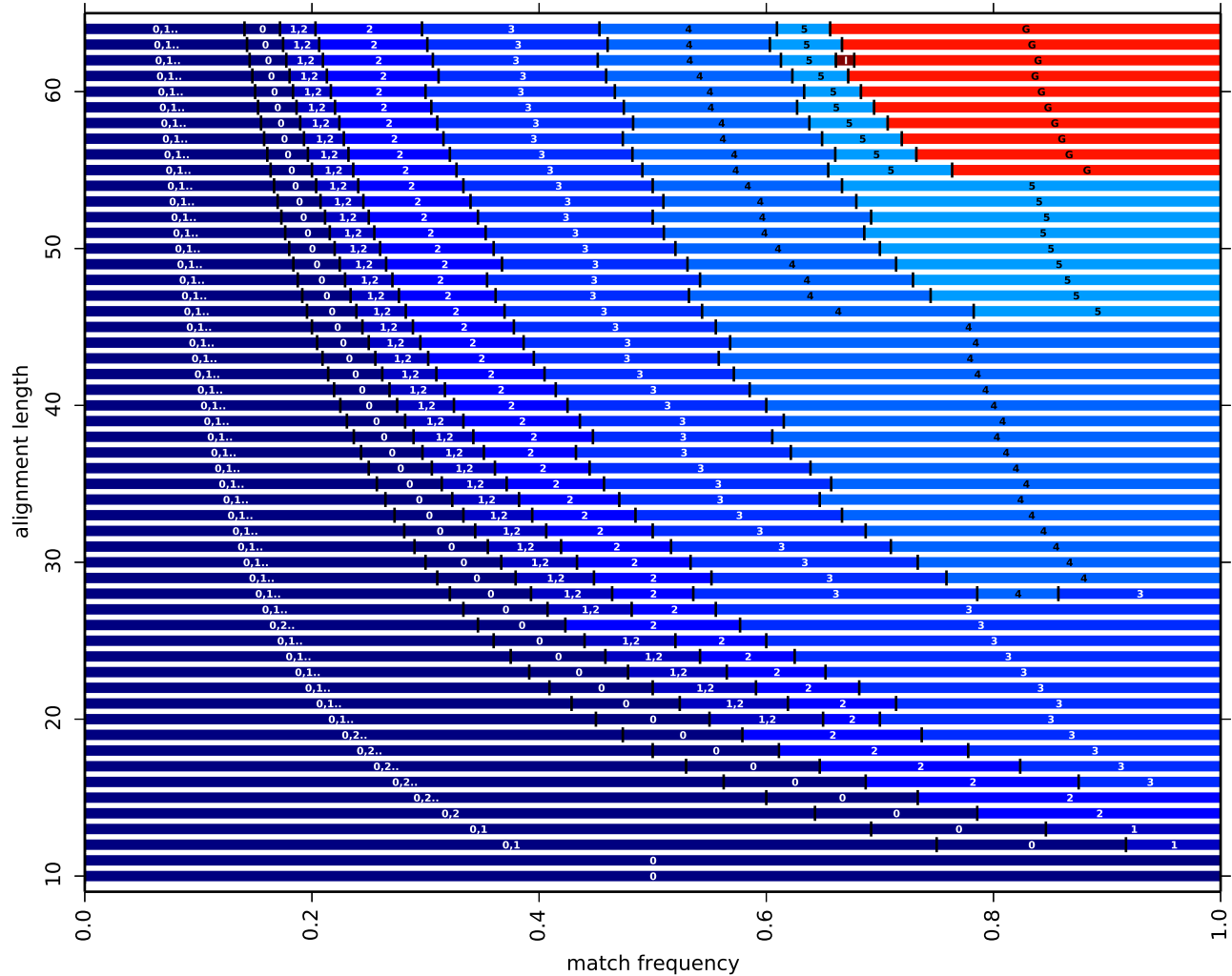
7 = 1110101001111
 8 = 11111001001111
 9 = 11101001001111

A = 1011100100100111
 B = 11011101111
 C = 1011100010010111

D = 10111000000010010111
 E = 1101001110111
 F = 1100110101111

G = 110110101000111
 H = 100011010111111
 I = 110110101001111

$$\sum_0^x \text{Heaviside}(n:1,w:9)$$



0 = 111111111
 1 = 111011111
 2 = 111101111
 3 = 111101111

4 = 111010110111
 5 = 111001101111
 6 = 1011110010111

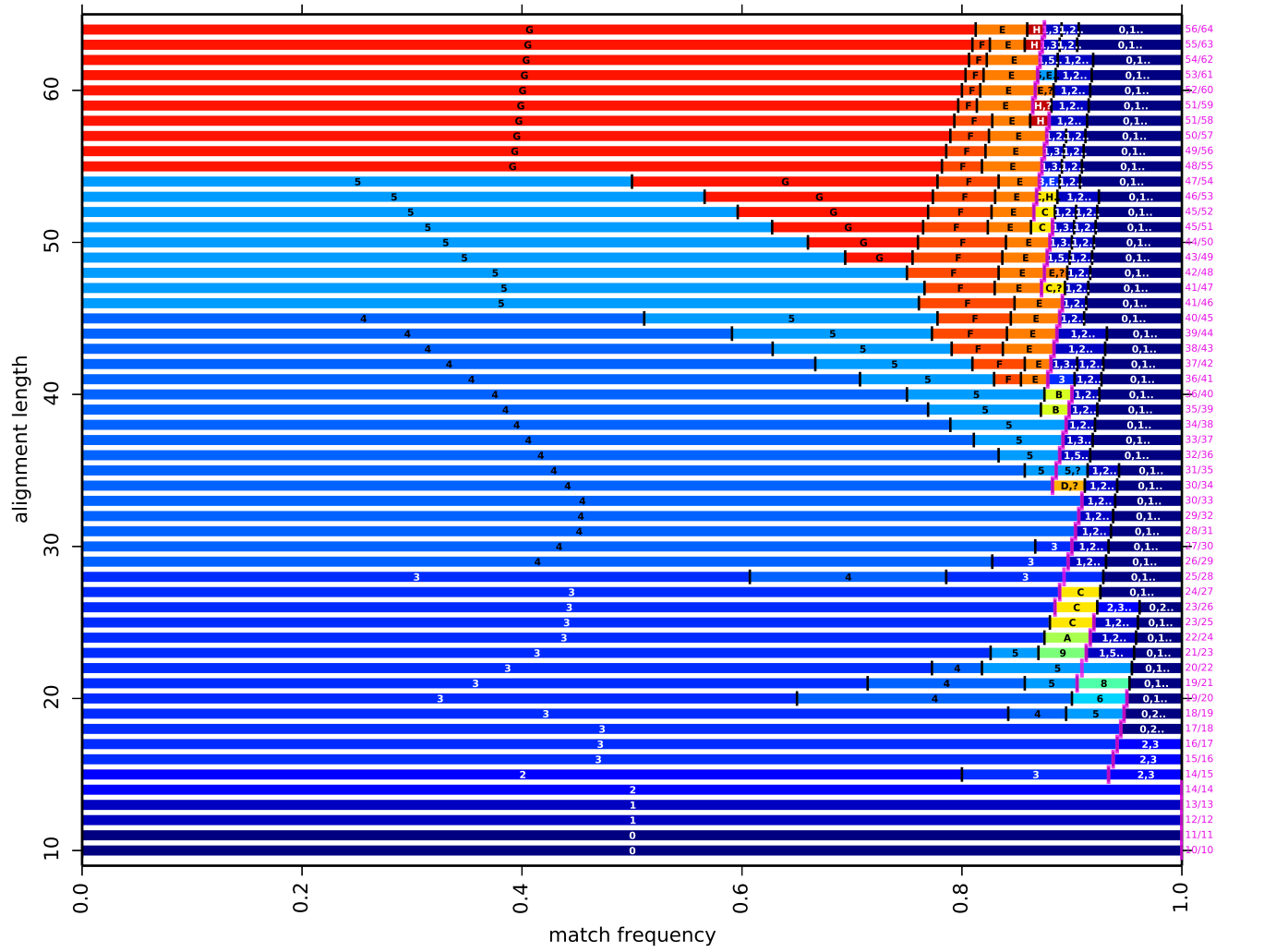
7 = 111101001111
 8 = 1111001001111
 9 = 11101001001111

A = 101110010010111
 B = 11011101111
 C = 1011100010010111

D = 10111000000010010111
 E = 1101001110111
 F = 1100110101111

G = 110110101000111
 H = 1000110101111
 I = 11011010100111

$$\sum_x \text{Heaviside}(n:1,w:9)$$



0 = 111111111
 1 = 111011111
 2 = 111101111
 3 = 11101101111

4 = 111010110111
 5 = 111001101111
 6 = 1011110010111

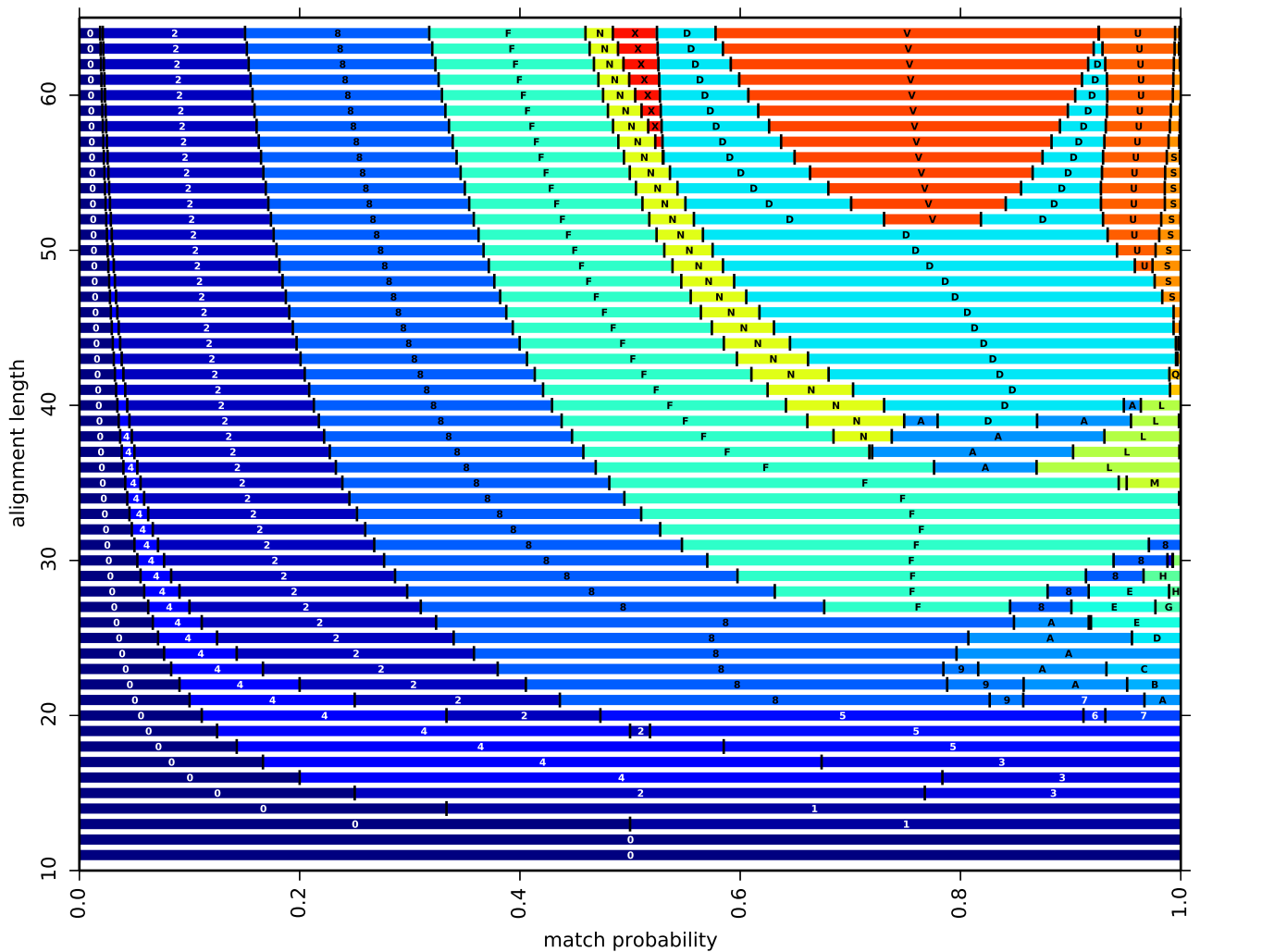
7 = 1110101001111
 8 = 1111001001111
 9 = 11101001001111

A = 101110010010111
 B = 11011101111
 C = 1011100010010111

D = 1011100000010010111
 E = 1101001110111
 F = 1100110101111

G = 110110101000111
 H = 10001101011111
 I = 11011010100111

Bernoulli (n:1,w:10)



0 = 1111111111
 1 = 1101111111
 2 = 1111011111
 3 = 11011101111
 4 = 11111011111

5 = 111101101111
 6 = 110110101111
 7 = 1111001101111
 8 = 111011011111
 9 = 1110101101111

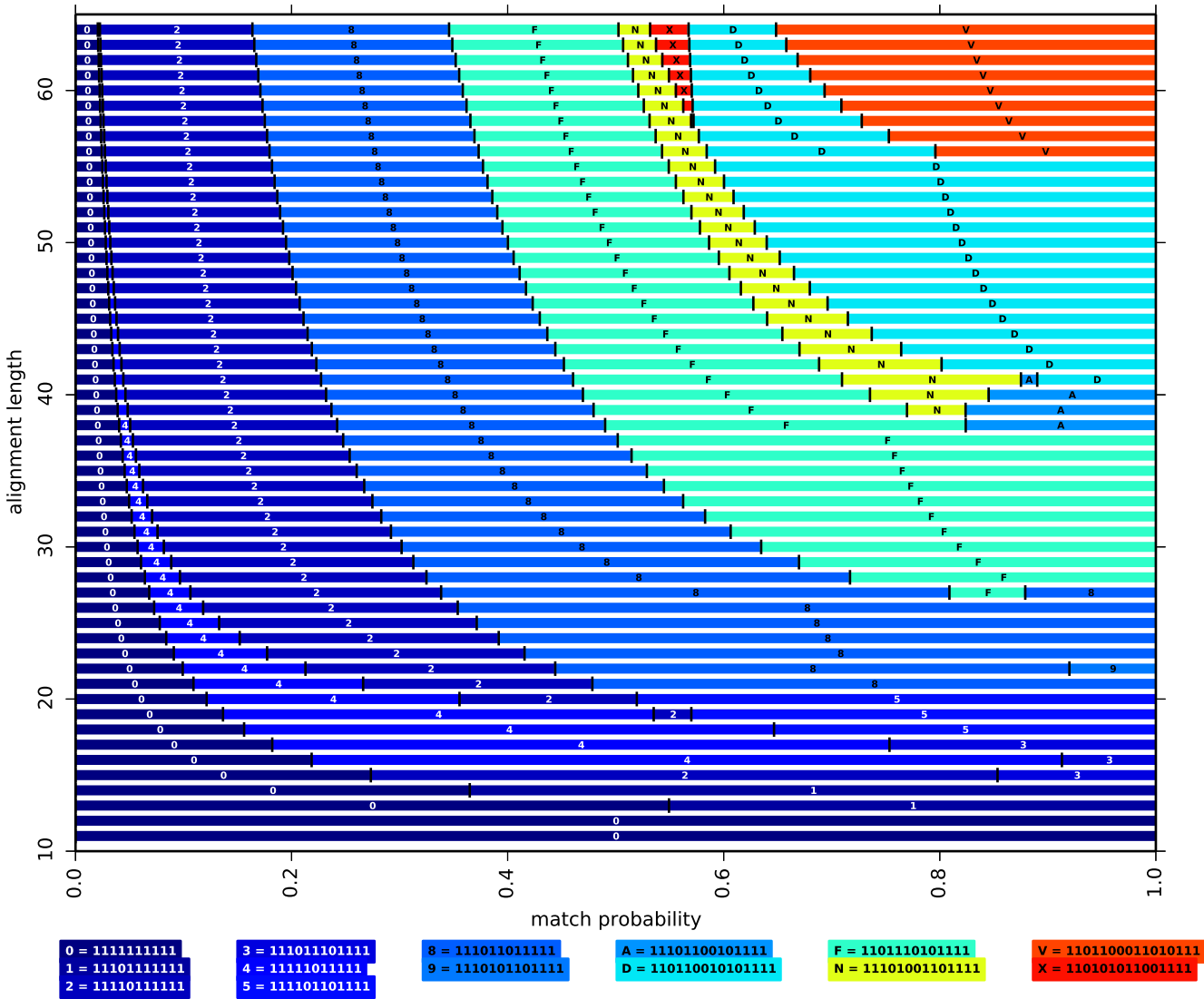
A = 1101100101111
 B = 1101001110100111
 C = 11110010101111
 D = 110110010101111

E = 1110101001001111
 F = 11011110101111
 G = 1111001000101111
 H = 11110010001001111

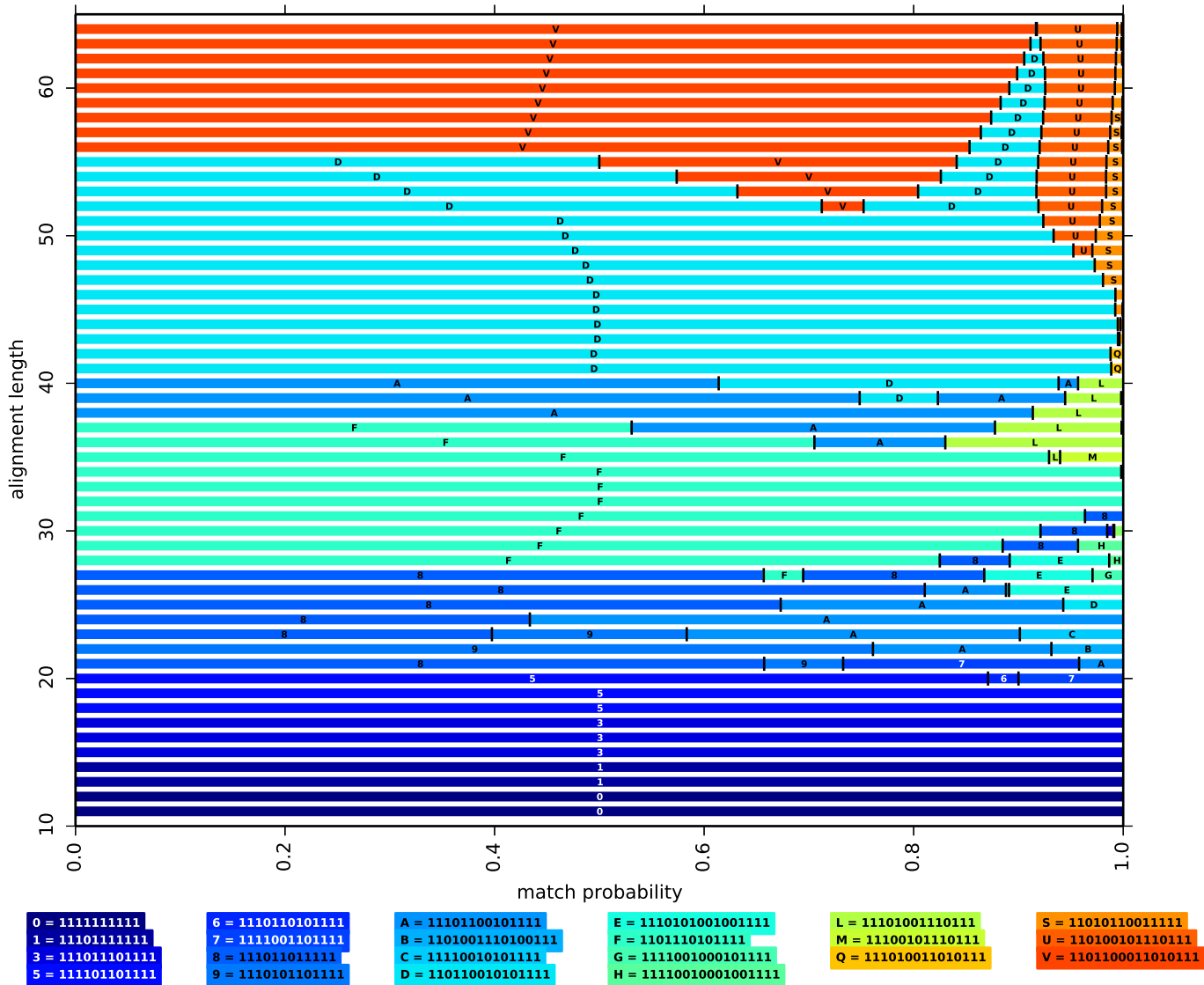
L = 111010011101111
 M = 111001011101111
 N = 11110011011111
 Q = 11101001110101111

S = 11010110011111
 U = 1101001011101111
 V = 1101100011010111
 X = 110101011001111

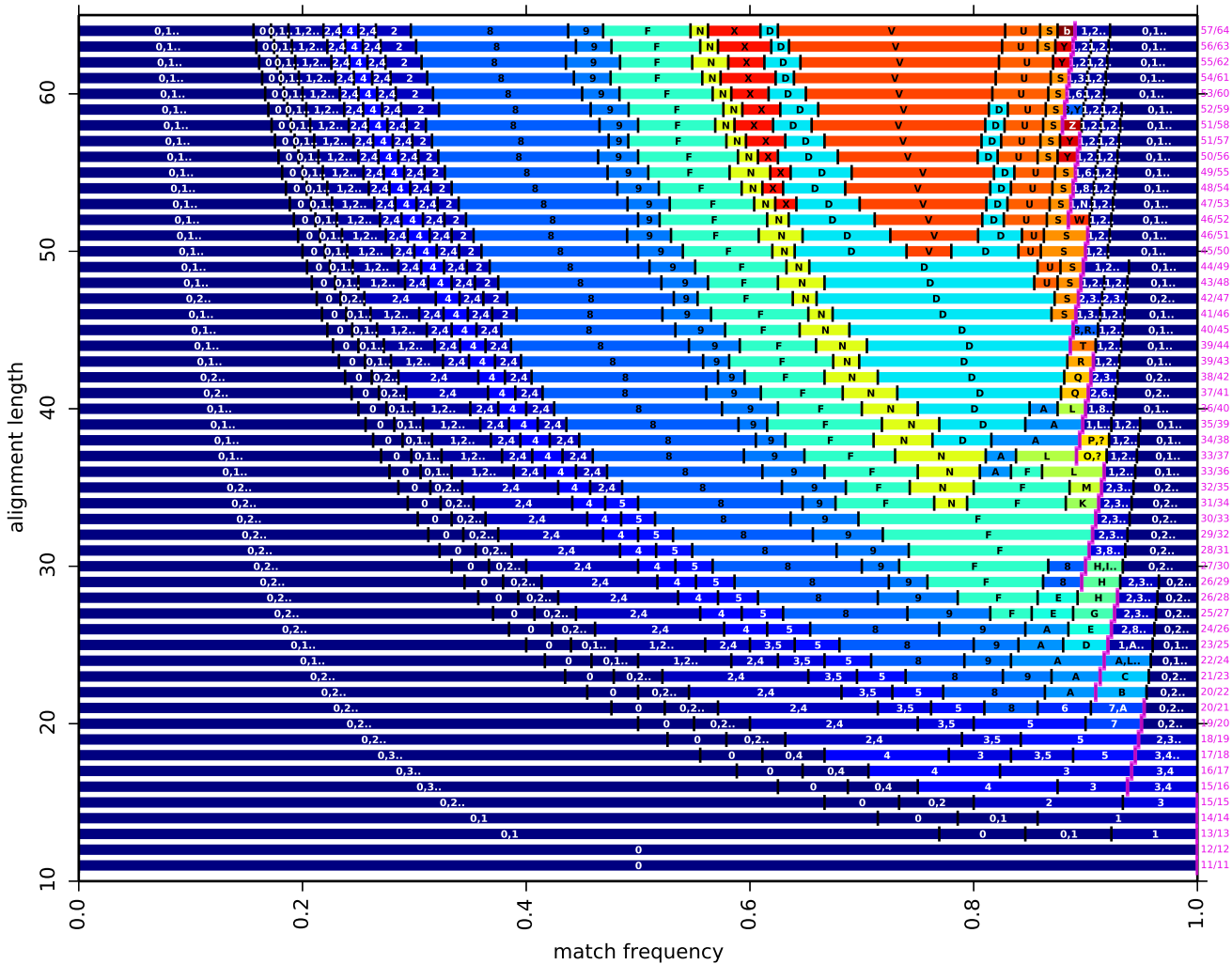
\int_0^x Hit Integration (n:1,w:10)



\int_x^1 Hit Integration (n:1,w:10)



Dirac (n:1,w:10)



0 = 1111111111
 1 = 1110111111
 2 = 1111011111
 3 = 111011101111
 4 = 11111011111
 5 = 111101101111
 6 = 111011011111

7 = 1111001101111
 8 = 111010111111
 9 = 1110101101111
 A = 111011001101111
 B = 1101001110100111
 C = 111110010101111
 D = 110110010101111

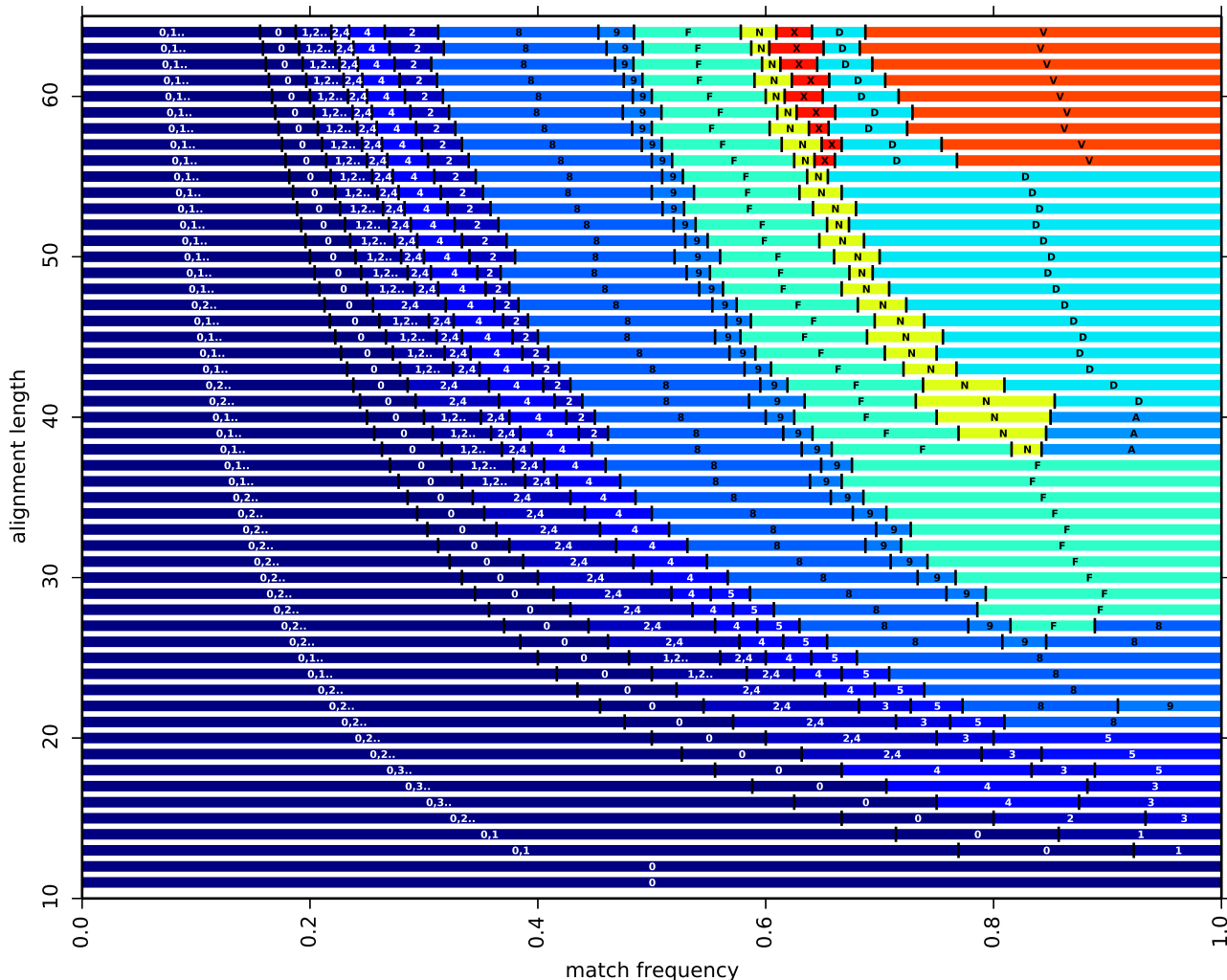
E = 11110101001001111
 F = 1101101111111
 G = 1111001000101111
 H = 11110101001001111
 I = 101110010100010111
 J = 10111000001010111

K = 1011100010001001111
 L = 111010011101111
 M = 111001011101111
 N = 111010011101111
 O = 1100101100000011001011
 P = 1011100001000100010111

Q = 111010011010111
 R = 1110010110010111
 S = 11010110011111
 T = 110111000101111
 U = 110100101110111
 V = 1101100011010111

W = 11000100110101111
 X = 110101011001111
 Y = 110011010101111
 Z = 11001000111101011
 a = 101110111001011
 b = 110001101011111

$$\sum_0^x \text{Heaviside}(n:1,w:10)$$



0 = 1111111111
 1 = 1110111111
 2 = 1111011111
 3 = 1110111111
 4 = 1111101111
 5 = 1111010111
 6 = 1110110111

7 = 111100110111
 8 = 111011011111
 9 = 111010110111
 A = 11101100110111
 B = 1101001111001111
 C = 11110010101111
 D = 110110010101111

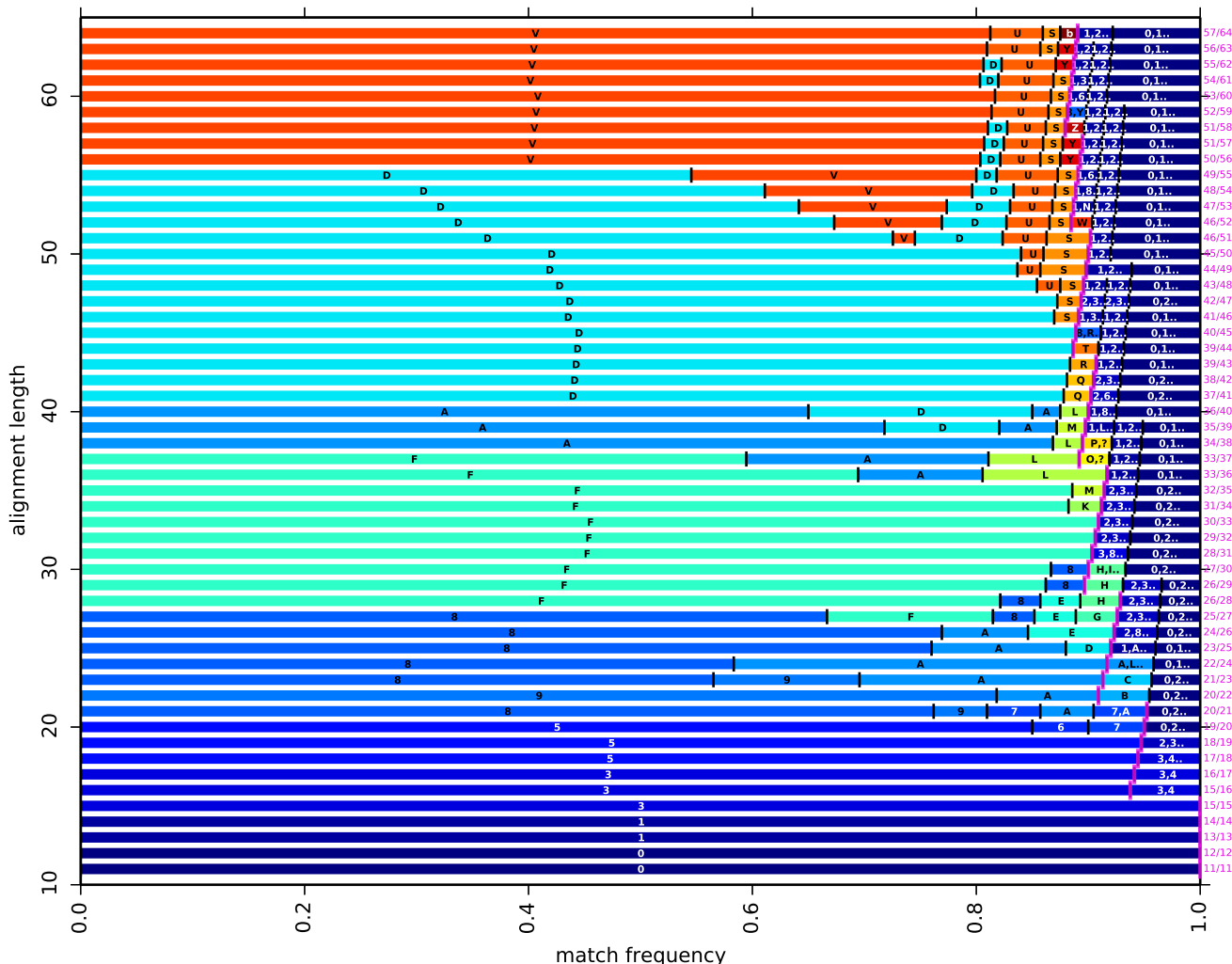
E = 1110101001001111
 F = 11011101011111
 G = 1111001000101111
 H = 111100100010011111
 I = 101110010100010111
 J = 101110000010101111

K = 10111000100010010111
 L = 1110100111011111
 M = 111001011101111
 N = 11101001101111
 O = 1100101100000011001011
 P = 1011100001000100010111

Q = 1110100110101111
 R = 1110010110010111
 S = 11010110011111
 T = 1110110001011111
 U = 1101001011101111
 V = 1101100011010111

W = 11000100110101111
 X = 1101010110011111
 Y = 1100110101011111
 Z = 11001000111101011
 a = 1011101110010111
 b = 1100011010111111

$$\sum_x^1 \text{Heaviside}(n:1,w:10)$$



0 = 1111111111
 1 = 1110111111
 2 = 1111011111
 3 = 111011101111
 4 = 11111011111
 5 = 111101101111
 6 = 111011011111

7 = 1111001101111
 8 = 111011011111
 9 = 1110101101111
 A = 111011001101111
 B = 1101001111001111
 C = 11110010101111
 D = 11011001011111

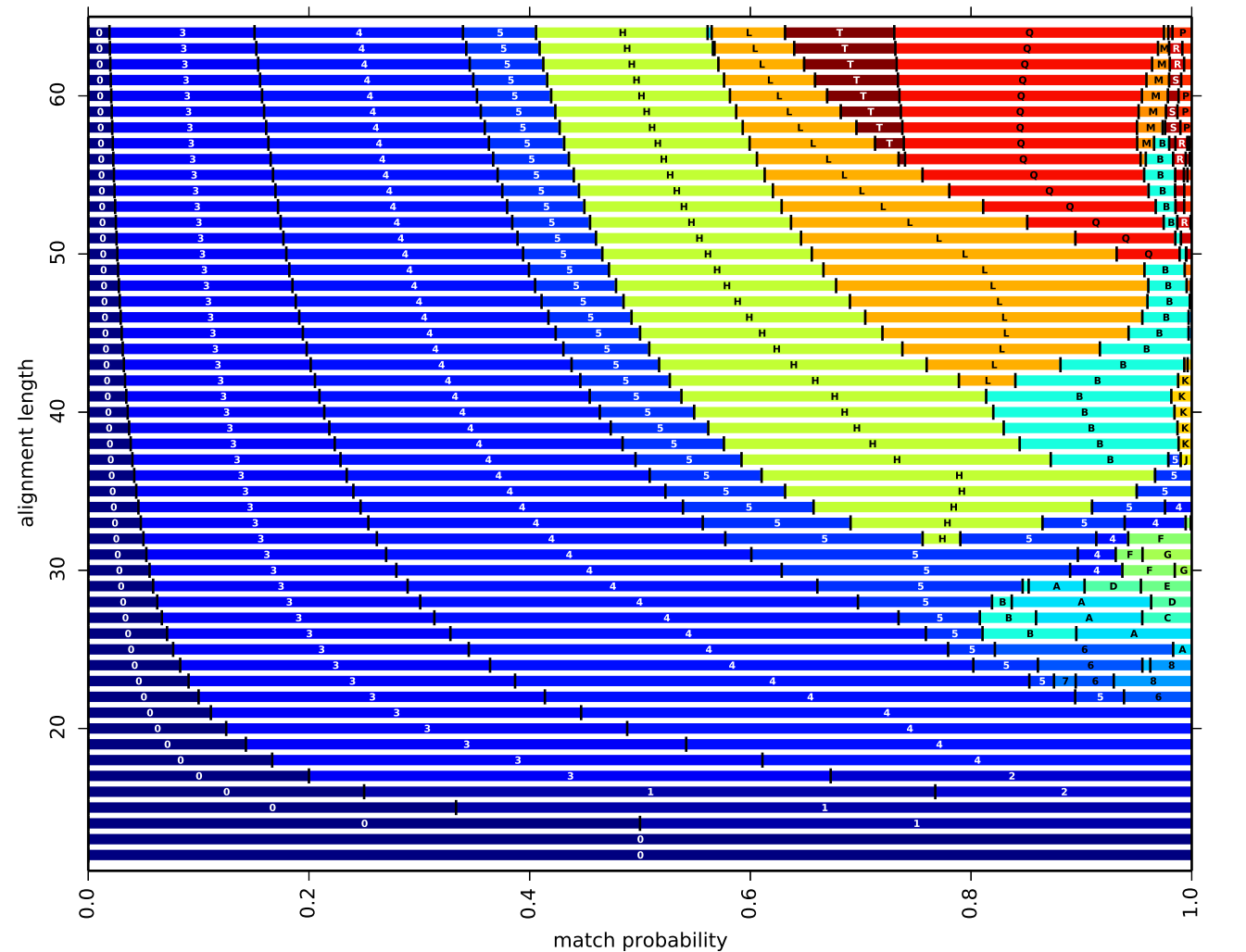
E = 1110101001001111
 F = 1101110101111
 G = 1111001000101111
 H = 11110010001001111
 I = 101110010100010111
 J = 101110000010101111

K = 10111000100010010111
 L = 11101001110111
 M = 11100101110111
 N = 11101001101111
 O = 1100101100000011001011
 P = 1011100001000100010111

Q = 111010011010111
 R = 1110010110010111
 S = 11010110011111
 T = 110111000101111
 U = 110100101110111
 V = 1101100011010111

W = 11000100110101111
 X = 1101010110011111
 Y = 110011010101111
 Z = 11001000111101011
 a = 101110111001011
 b = 110001101011111

Bernoulli (n:1,w:11)



0 = 11111111111
 1 = 11110111111
 2 = 111011110111
 3 = 11111011111
 4 = 111101101111
 5 = 1110110101111

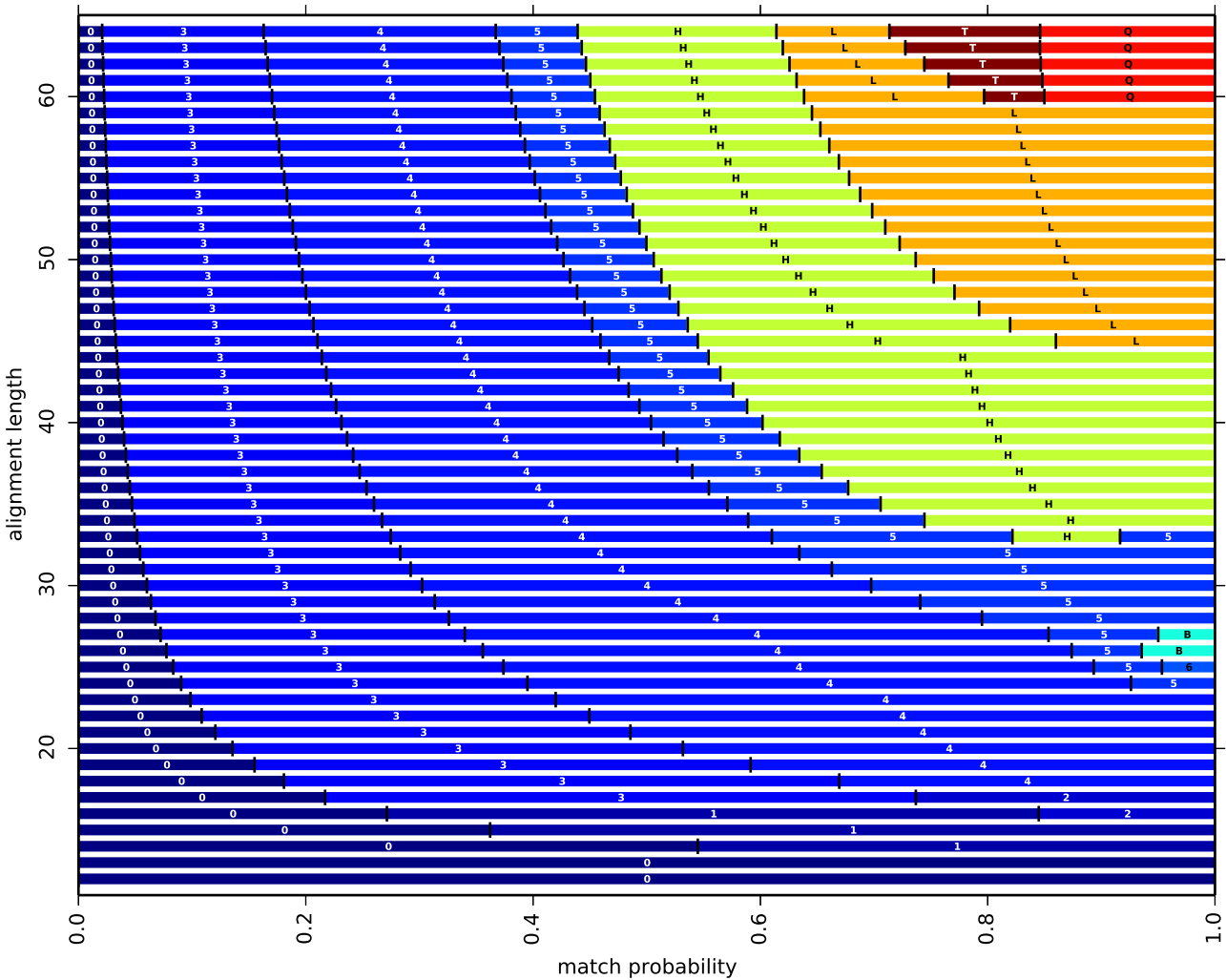
6 = 111100100110111
 7 = 110111010110111
 8 = 11100101110010111
 A = 1110110010101111
 B = 111011101001111

C = 11011100010110111
 D = 11110010010101111
 E = 110111000010110111
 F = 111010110010001111
 G = 1101110000010110111

H = 111010110110111
 J = 111100010001001001111
 K = 111010011110111
 L = 1110100101110111
 M = 1101110101001111

P = 11001101010110111
 Q = 111001011001010111
 R = 101100101111010111
 S = 1011110110010111
 T = 111010010100110111

\int_0^x Hit Integration (n:1,w:11)



0 = 11111111111
 1 = 11110111111
 2 = 1110111101111

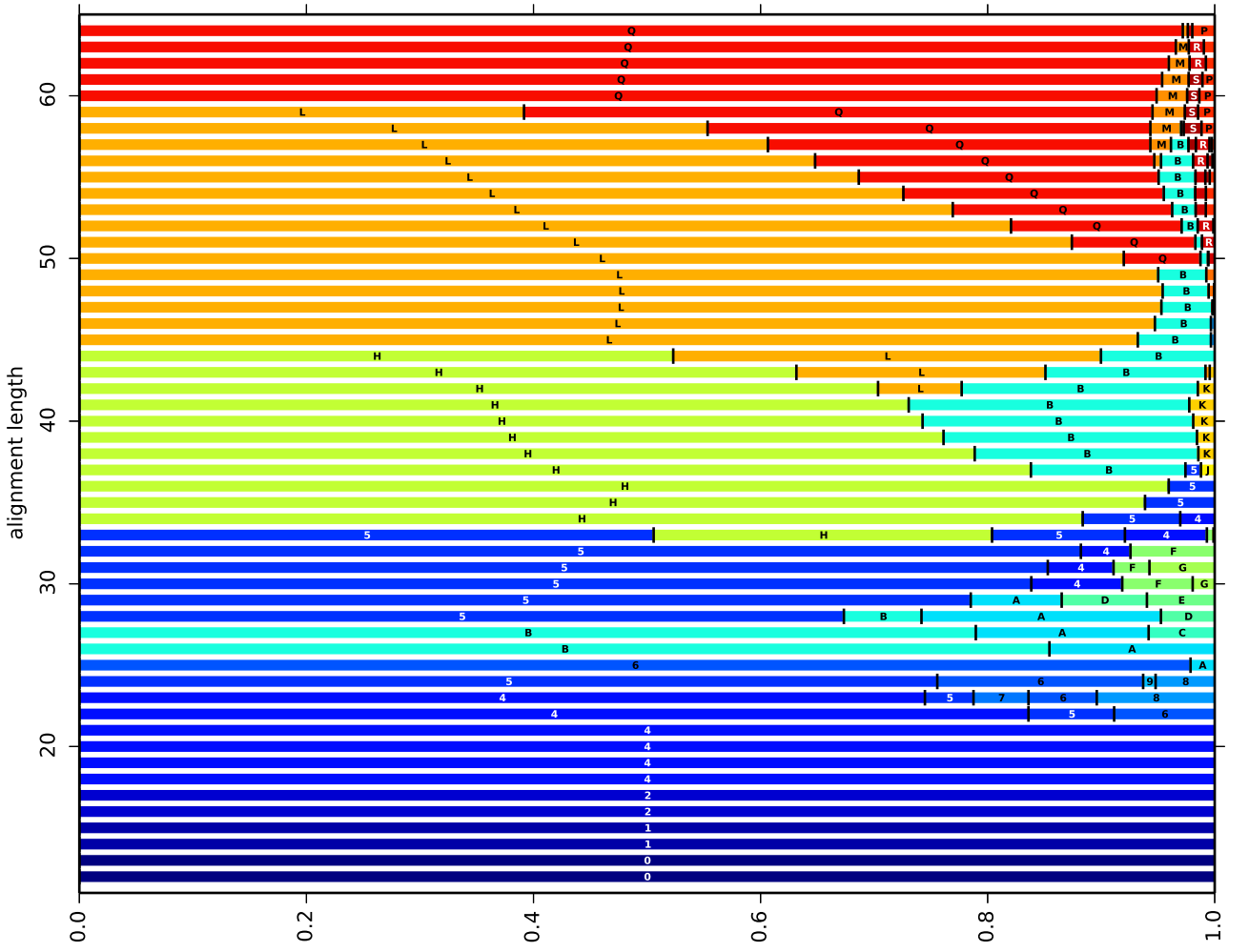
3 = 11111011111
 4 = 1111011101111
 5 = 111011011011111

6 = 111101001101111
 B = 11101111010011111

H = 111010110110111
 L = 11101001011101111

Q = 111001011001010111
 T = 1110100101001101111

\int_x^1 Hit Integration (n:1,w:11)



0 = 1111111111
 1 = 1111011111
 2 = 111011101111
 4 = 111101101111
 5 = 1110110101111

6 = 11110100101111
 7 = 110111010101111
 8 = 11100101110010111
 9 = 1101111000101111
 A = 1110110010101111

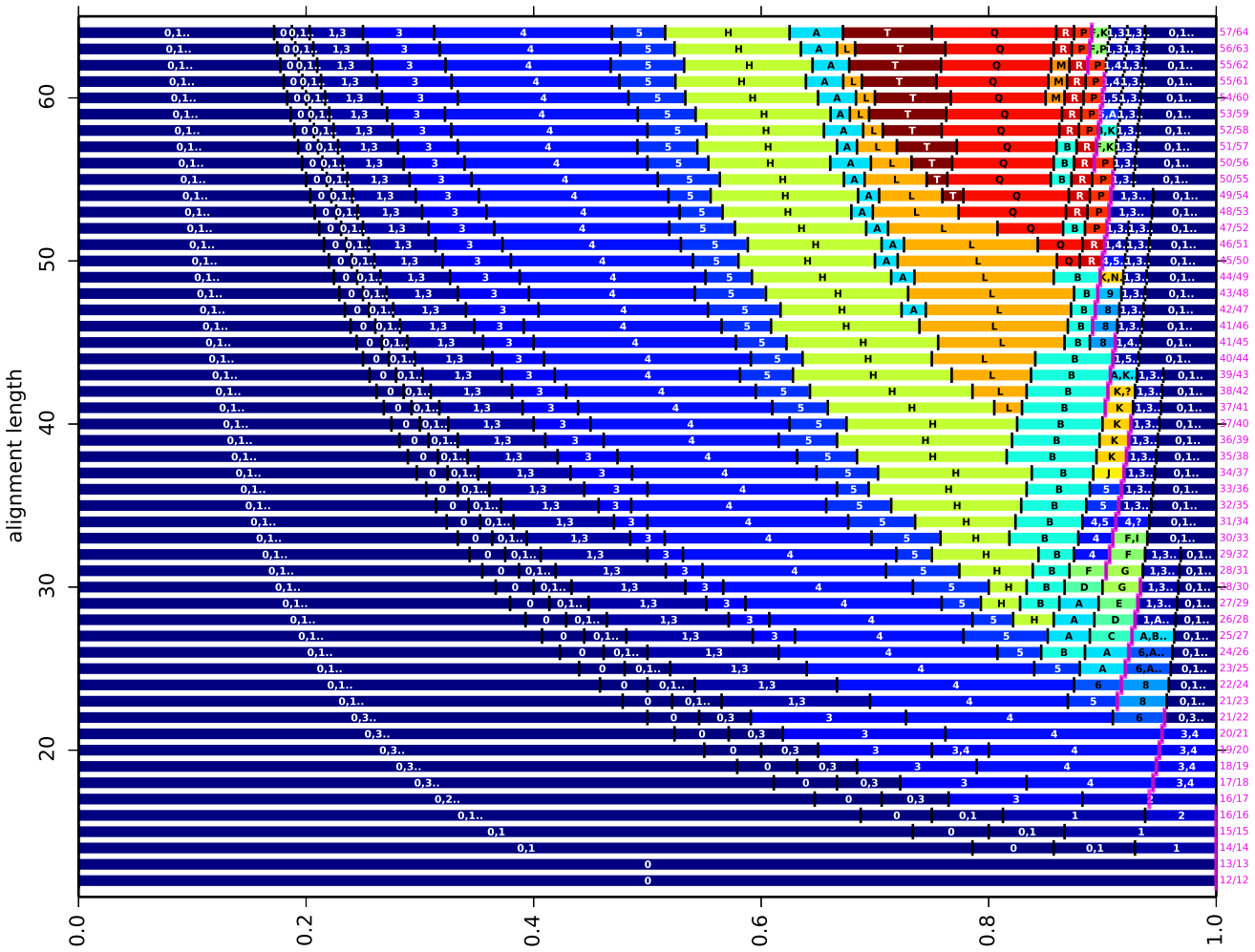
B = 111011101001111
 C = 11011100010101111
 D = 11110010010101111
 E = 110111000010110111
 F = 111010110010001111

G = 1101110000010110111
 H = 1110101101010111
 J = 111100010001001001111
 K = 111010011110111
 L = 1110100101110111

M = 1101110101001111
 P = 1100110101011111
 Q = 111001011001010111
 R = 101100101111010111
 S = 1011110110010111

match probability

Dirac (n:1,w:11)



0 = 11111111111
 1 = 11110111111
 2 = 11101110111
 3 = 11111011111
 4 = 11110110111
 5 = 11101101111

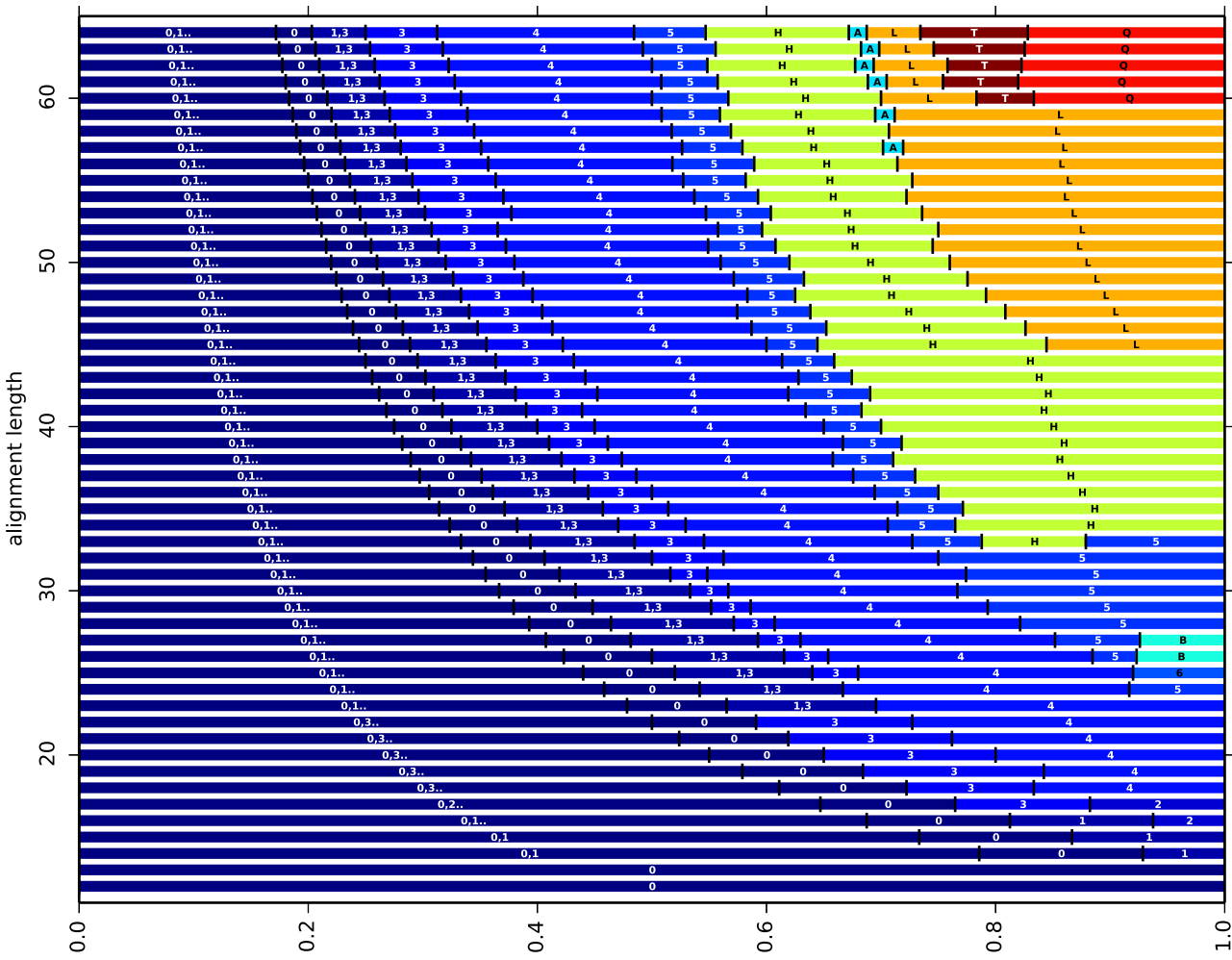
6 = 11110010111
 7 = 11011101011
 8 = 1100101100111
 9 = 1101110001011
 A = 1101100101011
 B = 1101110100111

C = 110110001011011
 D = 111100100101011
 E = 11011100001011011
 F = 1110101001000111
 G = 11011000001011011
 H = 1110101101011

I = 11110010001001011
 J = 111100010001001011
 K = 111010011101011
 L = 111010010111011
 M = 110110101000111
 N = 11100101011001011

O = 10111001011001011
 P = 110011010101111
 Q = 11100010100101011
 R = 101100101111011
 S = 101110110010111
 T = 11101001010011011

$$\sum_0^x \text{Heaviside}(n:1,w:11)$$



0 = 1111111111
 1 = 1111011111
 2 = 1110111111
 3 = 1111101111
 4 = 1111011011
 5 = 1110110111

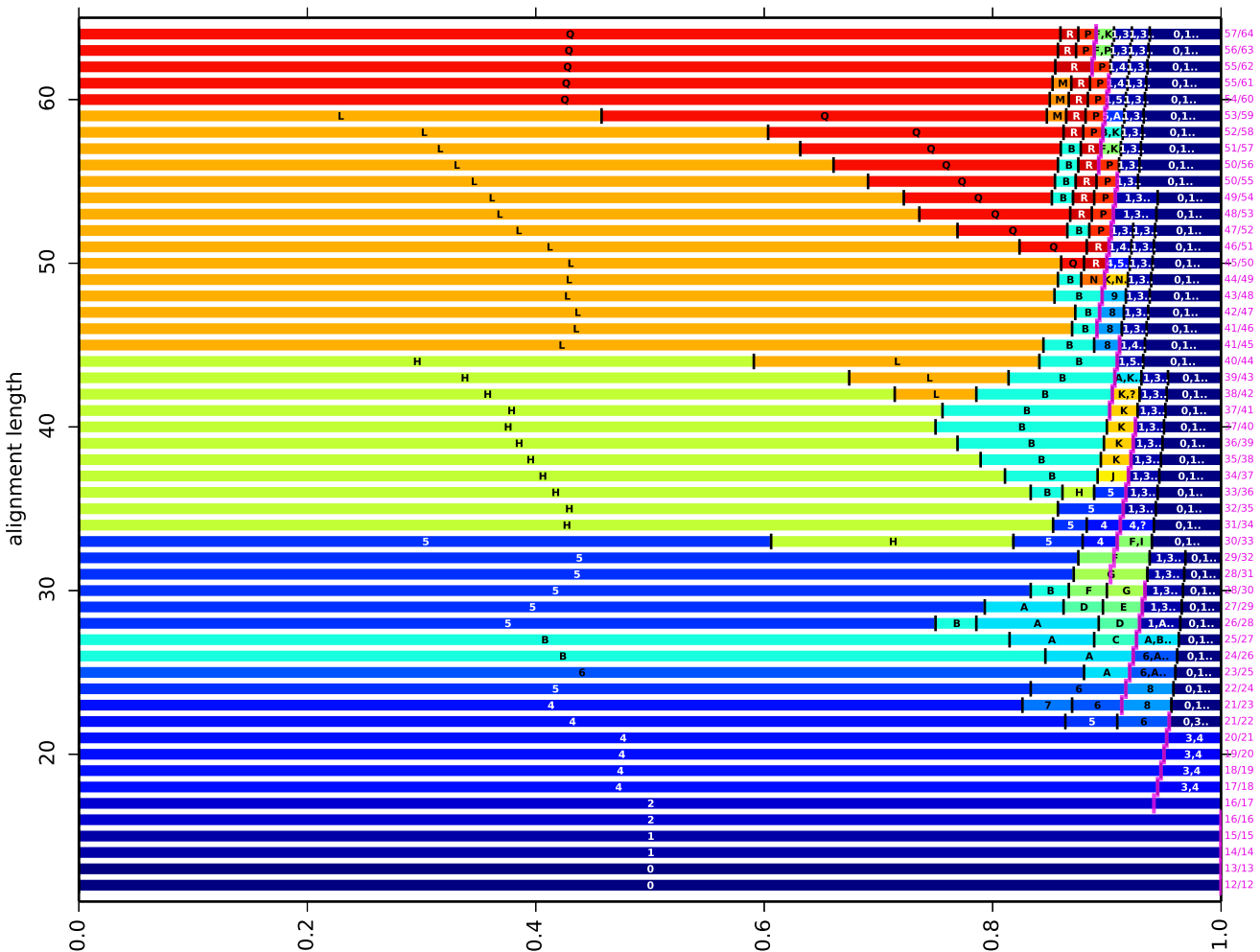
6 = 111101001111
 7 = 110111010111
 8 = 11001011100111
 9 = 11011110001111
 A = 111011001010111
 B = 11101110100111

C = 1101110001011011
 D = 1111001001011011
 E = 11011100001011011
 F = 11101011001000111
 G = 110111000001011011
 H = 11101011011011

I = 111100100010010111
 J = 111100010001001011
 K = 11101001111011
 L = 111010010111011
 M = 110111010100111
 N = 11100101011001011

O = 10111001011001011
 P = 110011010101111
 Q = 1110010110010111
 R = 101100101111011
 S = 101111011001011
 T = 11101001010011011

$$\sum_x^1 \text{Heaviside}(n:l,w:11)$$



0 = 11111111111
 1 = 11110111111
 2 = 11101111111
 3 = 11111011111
 4 = 11110110111
 5 = 11101101111

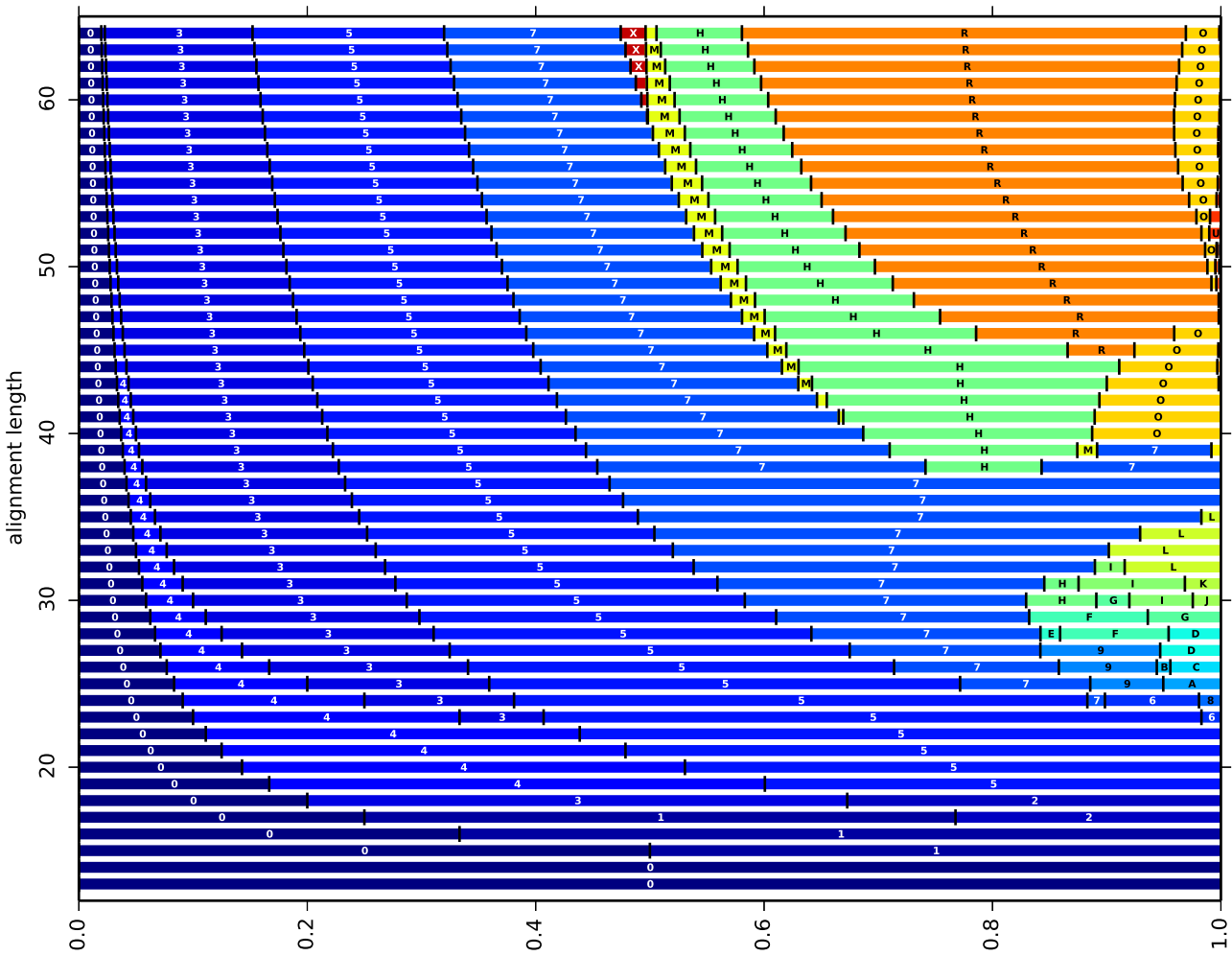
6 = 111101001101111
 7 = 110111010110111
 8 = 11100101110010111
 9 = 1101111000101111
 A = 1110110010101111
 B = 111011101001111

C = 11011100010110111
 D = 11110010010101111
 E = 11011100001010111
 F = 11101011001000111
 G = 1101110000010110111
 H = 111010110110111

I = 1111001000100101111
 J = 1111000100010010111
 K = 111010011110111
 L = 1110100101110111
 M = 1101110101001111
 N = 111001010110010111

O = 101110010110010111
 P = 1100110101011111
 Q = 111001011001010111
 R = 10110010111110111
 S = 1011110110010111
 T = 111010010100110111

Bernoulli (n:1,w:12)



0 = 111111111111
 1 = 111101111111
 2 = 1110111011111
 3 = 1111101111111
 4 = 1111110111111
 5 = 11110111011111

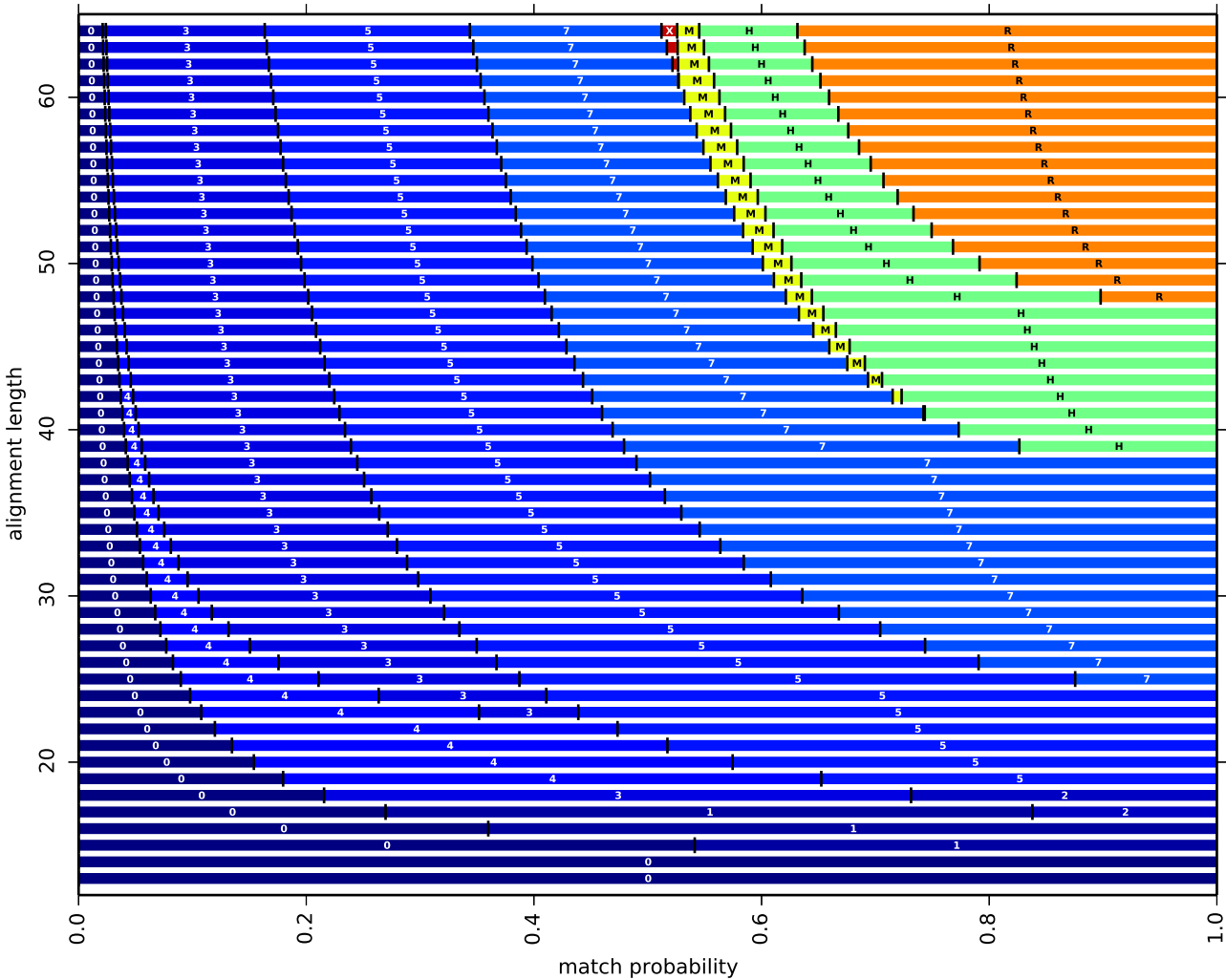
6 = 111011100101111
 7 = 111011101010111
 8 = 11101001111000111
 9 = 111101010011111
 A = 1011100101110010111
 B = 1111100101011111

C = 11011110001101111
 D = 11101101001110111
 E = 1111001011101111
 F = 111101001101111
 G = 11110011010101111

H = 11101100110101111
 I = 11110011001010111
 J = 111011010000110111
 K = 101111000100110111
 L = 1111000100110101111

M = 11011101011011111
 O = 11100101101110111
 R = 11101101001011111
 U = 110111001010010111
 X = 11101101101011111

\int_0^x Hit Integration (n:1,w:12)



0 = 111111111111
 1 = 111101111111
 2 = 111011110111

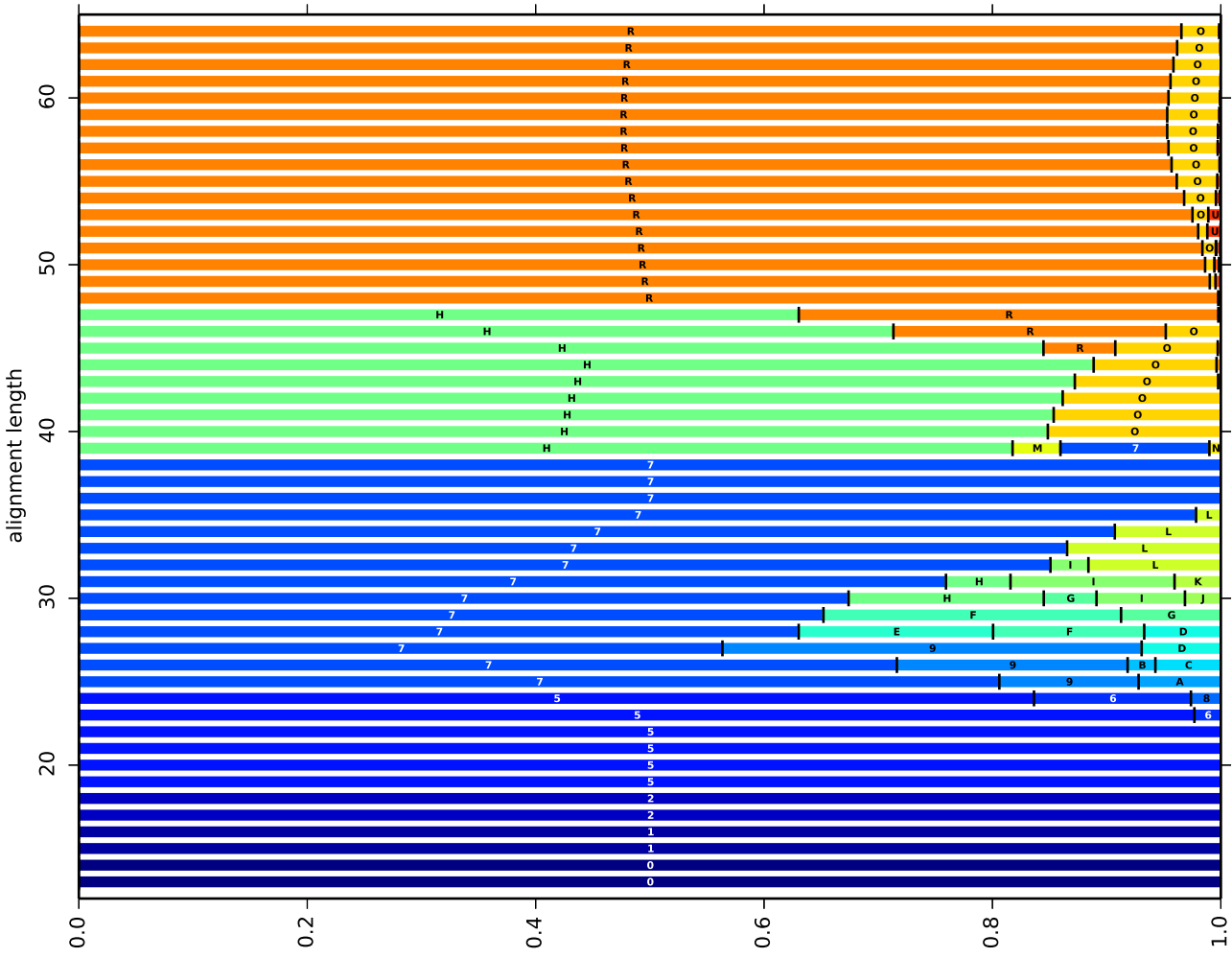
3 = 111110111111
 4 = 111111011111

5 = 111101110111
 7 = 11101110110111

H = 1110110011010111
 M = 1101110101101111

R = 111010110100110111
 X = 1110110110101111

\int_x^1 Hit Integration (n:1,w:12)



match probability

0 = 111111111111
 1 = 111101111111
 2 = 1110111101111
 5 = 1111011101111
 6 = 111011100101111

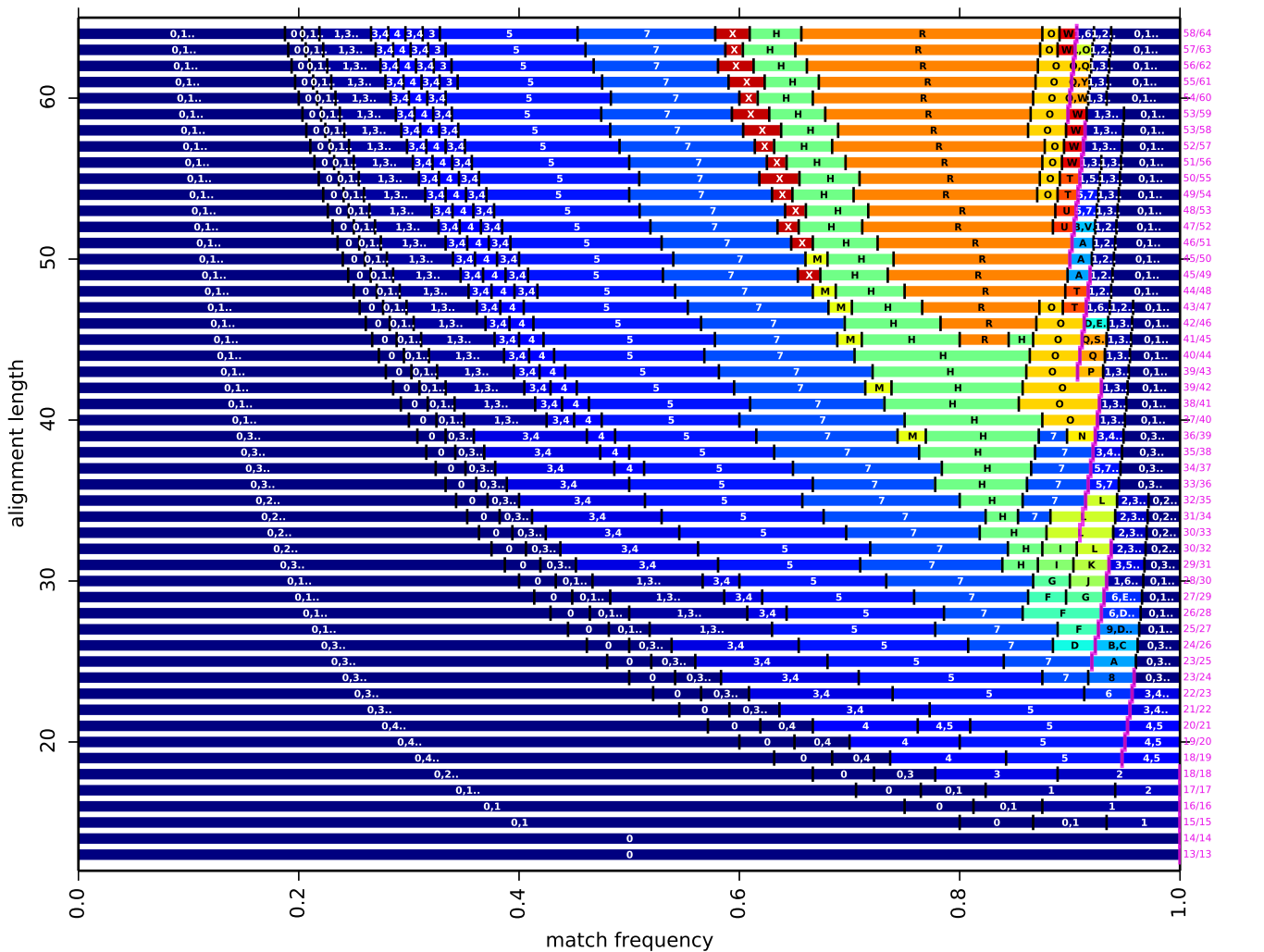
7 = 111011101101111
 8 = 111010011101001111
 9 = 1111010110011111
 A = 1011100101110010111
 B = 1111100101011111

C = 11011110001101111
 D = 11101101001110111
 E = 1111001011101111
 F = 11110101001110111
 G = 11110011010101111

H = 11101100110101111
 I = 11110011001010111
 J = 1110110100001110111
 K = 101111000100110111
 L = 1111000100110101111

M = 1101110101101111
 N = 1011110001000100010111
 O = 11100101101110111
 R = 111010110100110111
 U = 1101110010110010111

Dirac (n:1,w:12)



0 = 111111111111
 1 = 111101111111
 2 = 11101111011111
 3 = 11111011111111
 4 = 11111011111111
 5 = 11110111011111
 6 = 1110111001011111
 7 = 1110111011011111

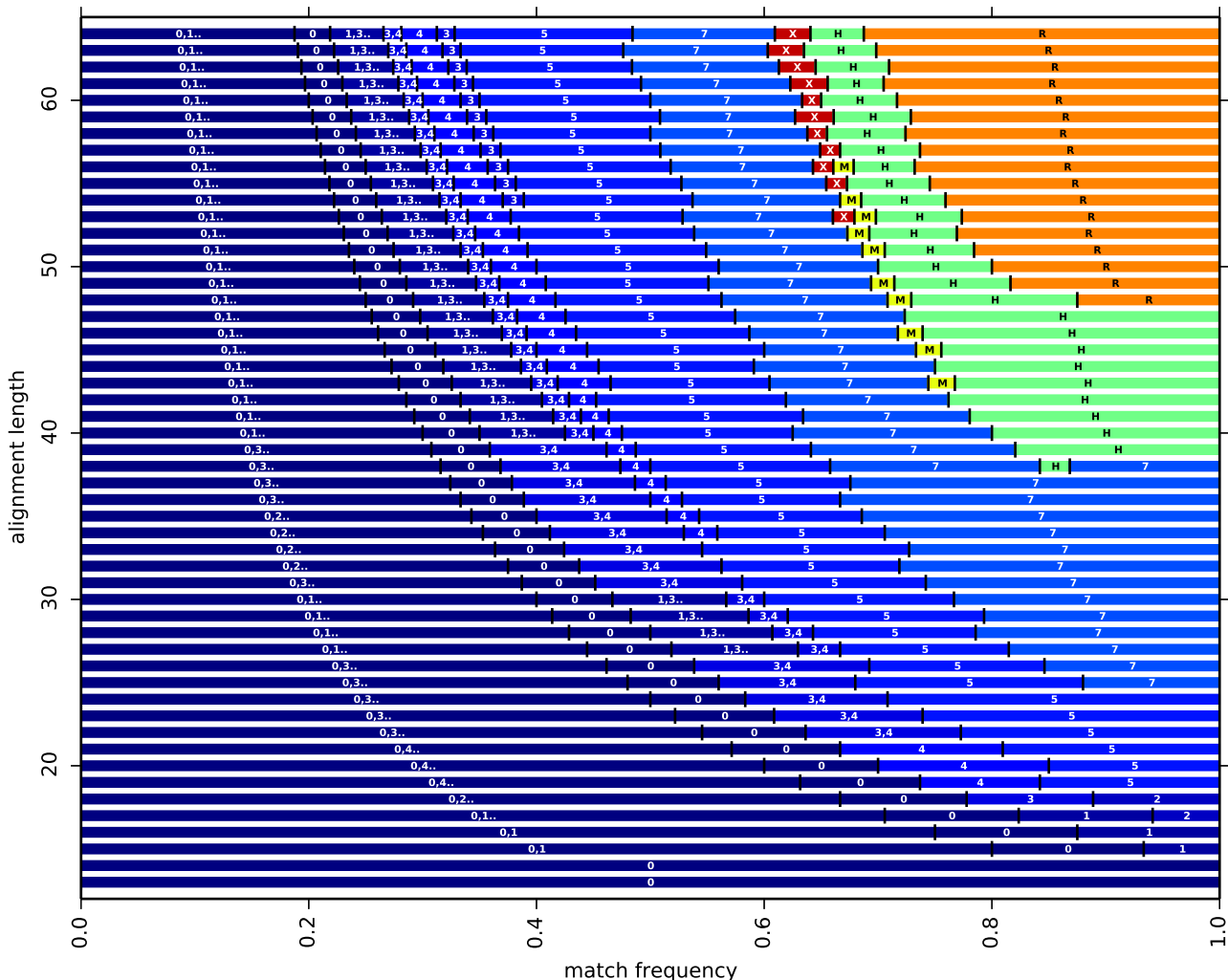
8 = 111010011101001111
 9 = 111101011001111111
 A = 10111001011100101111
 B = 111110010101111111
 C = 110111000101011111
 D = 11101010001101011111
 E = 11110010111011011111

F = 111101010011011111
 G = 111100110101011111
 H = 111011001101011111
 I = 11110011001010111111
 J = 11101101000011011111
 K = 10111100010011011111
 L = 11110001001101011111

M = 110111010101011111
 N = 101111000100001000101111
 O = 111001011011011111
 P = 101110000100001000101111
 Q = 111001011110101111
 R = 11101010100110101111
 S = 110101110011011111

T = 110110010111101011
 U = 11011001010010010111
 V = 11100101110010010111
 W = 110011010101011111
 X = 111010110101011111
 Y = 101110001001101010111
 Z = 101110111100101111

$$\sum_0^x \text{Heaviside}(n:1,w:12)$$



0 = 111111111111
 1 = 111101111111
 2 = 110111101111
 3 = 111110111111
 4 = 111110111111
 5 = 111101110111
 6 = 110111001011
 7 = 110111011011

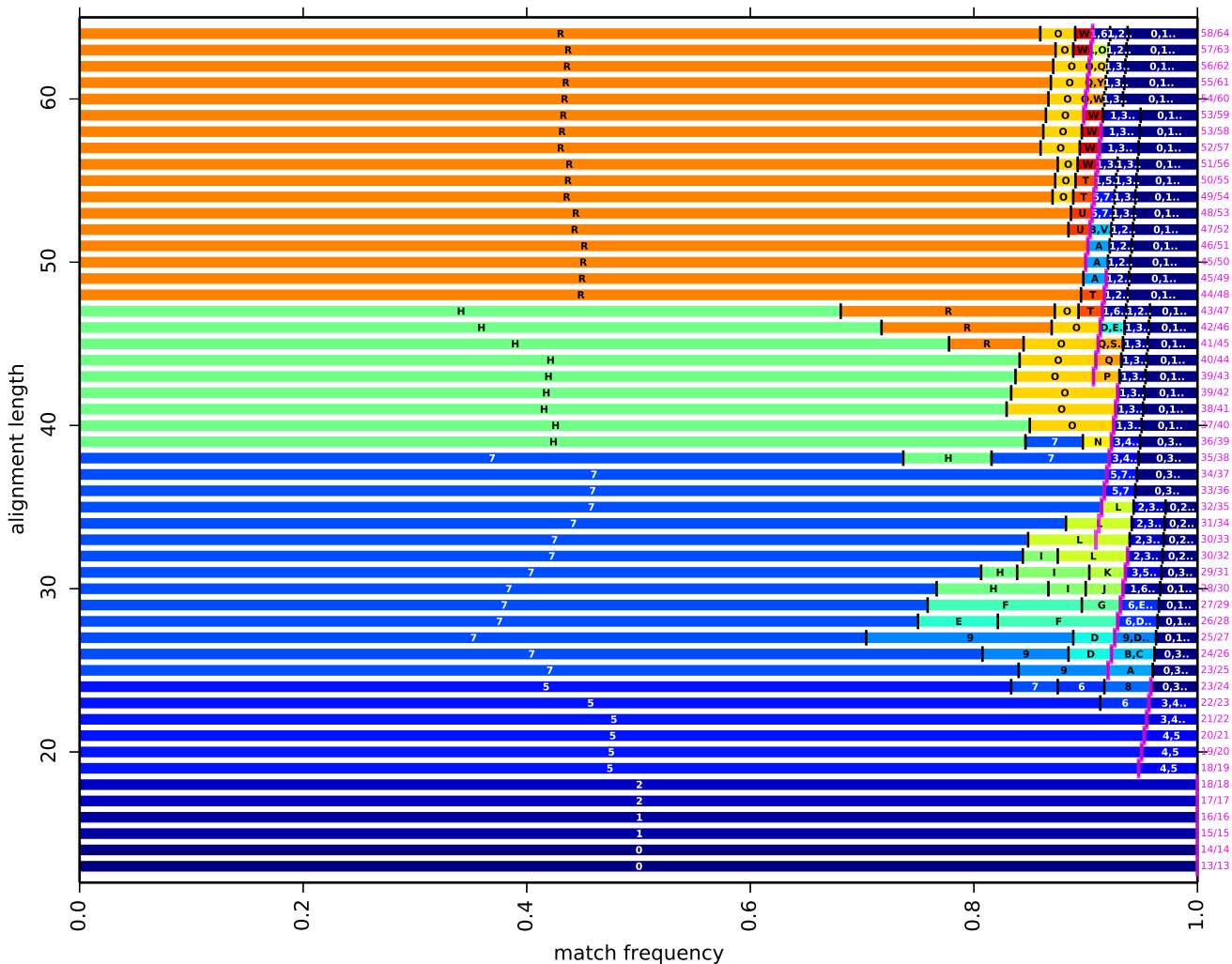
8 = 111010011101001111
 9 = 1111010110011111
 A = 101110010111001011
 B = 1111100101011111
 C = 11011110001101111
 D = 111011010011101111
 E = 1111001011101111

F = 11110101001101111
 G = 11110011010101111
 H = 11101100110101111
 I = 111100110010101111
 J = 111011010000110111
 K = 101111000100110111
 L = 111100010011010111

M = 1101110101101111
 N = 1011110001000100011111
 O = 1110010110110111
 P = 101111000010000100010111
 Q = 111001011110111
 R = 111010110100110111
 S = 1101011100110111

T = 11011001011110111
 U = 1101110010110010111
 V = 11100101110010010111
 W = 1100110101011111
 X = 1110110110101111
 Y = 10111100010011010111
 Z = 10111011110010111

$$\sum_x^1 \text{Heaviside}(n:1,w:12)$$



0 = 111111111111
 1 = 111101111111
 2 = 11101111011111
 3 = 11111011111111
 4 = 11111101111111
 5 = 11110111011111
 6 = 1110111001011111
 7 = 1110111011011111

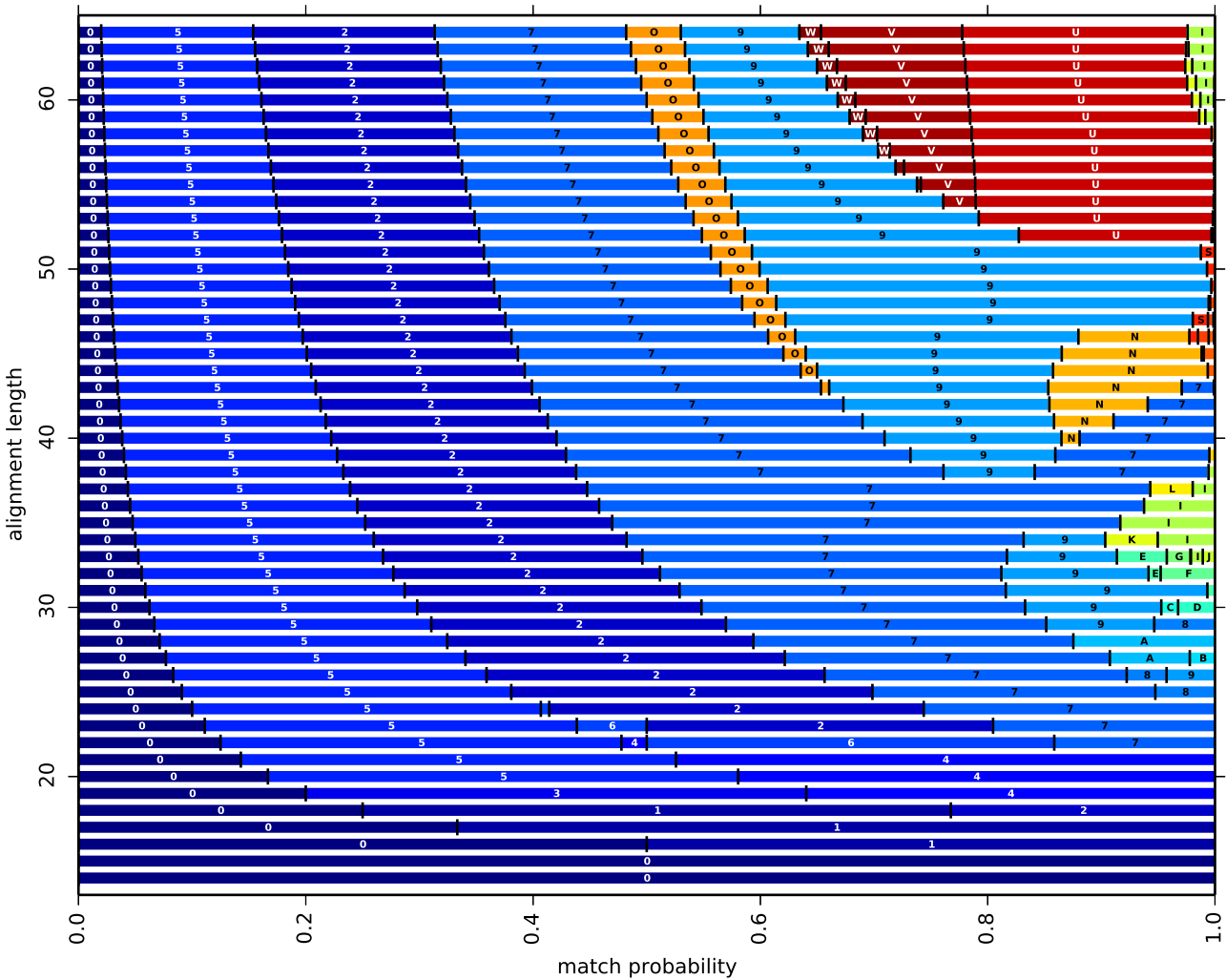
8 = 111010011101001111
 9 = 111101011001011111
 A = 10111001011100101111
 B = 1111100101011111
 C = 110111100011011111
 D = 111011010011011111
 E = 111100101111011111

F = 111101010011011111
 G = 111100110101011111
 H = 111011001101011111
 I = 111100110010101111
 J = 11101101000011101111
 K = 10111100010011011111
 L = 11110001001101011111

M = 110111010110111111
 N = 101111000100010001011111
 O = 111001011011101111
 P = 10111100001000010001011111
 Q = 111001011111011111
 R = 11101011010011011111
 S = 110101110011011111

T = 110110010111101111
 U = 11011100101100101111
 V = 11100101110010010111
 W = 110011010101111111
 X = 111011011010111111
 Y = 10111100010011010111
 Z = 101110111100101111

Bernoulli (n:1,w:13)



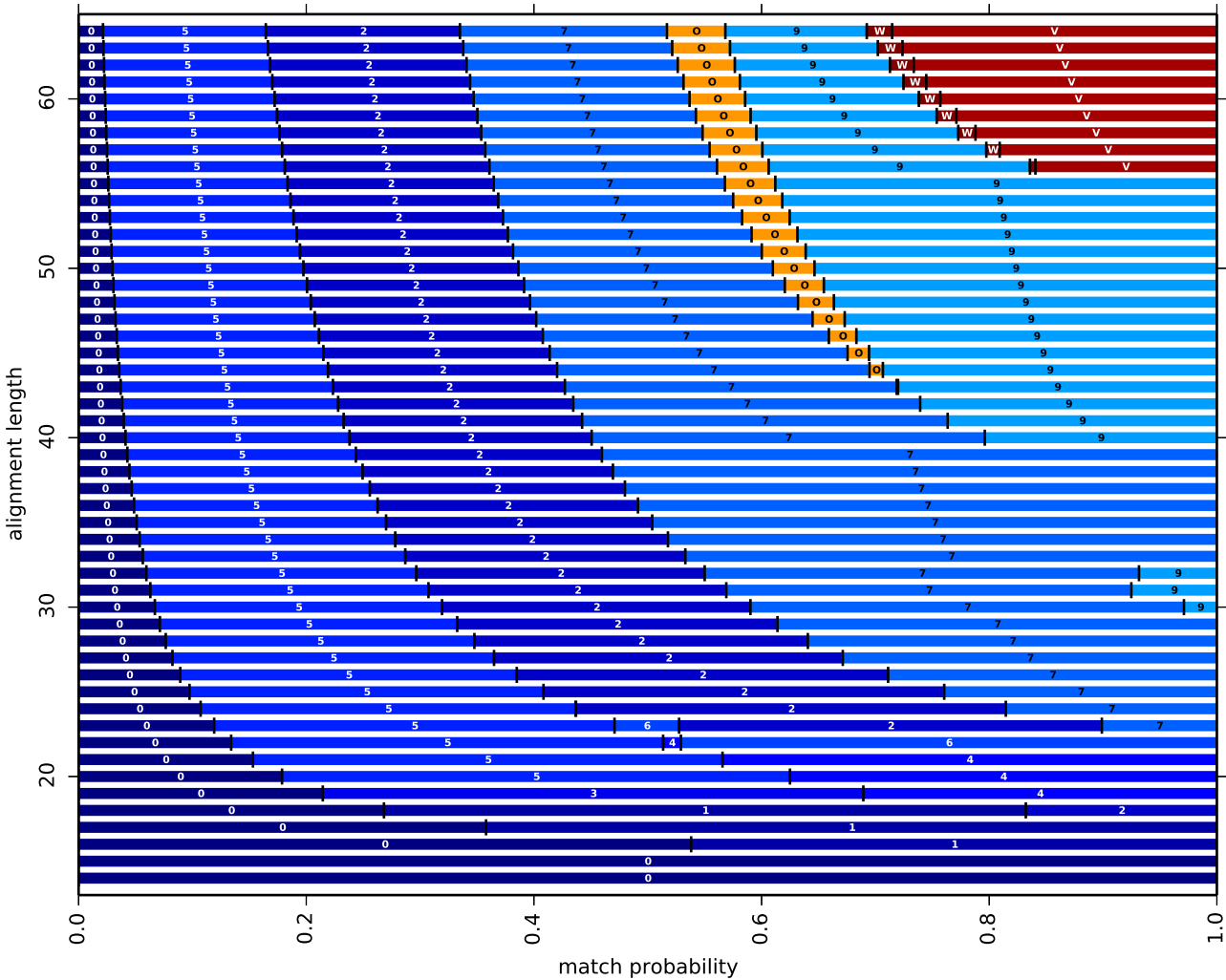
0 = 1111111111111
 1 = 1111011111111
 2 = 1111011011111
 3 = 1111011111111
 4 = 1111011101111
 5 = 1111101111111
 6 = 1111101101111

7 = 1111011011101111
 8 = 1111011100101111
 9 = 11110101100101111
 A = 11111001101011111
 B = 11011110001101111
 C = 11101101011001111
 D = 111011010010110111

E = 111101010011001111
 F = 11011110001001101111
 G = 111100110010101111
 I = 101111000100110101111
 J = 11101010000011101111
 K = 1110101001011001111
 L = 111100101010011001111

N = 111011101101001111
 O = 11101110110101111
 S = 111011001011110111
 U = 11101001101001110111
 V = 1110101001100101111
 W = 1110110110010101111

\int_0^x Hit Integration (n:1,w:13)



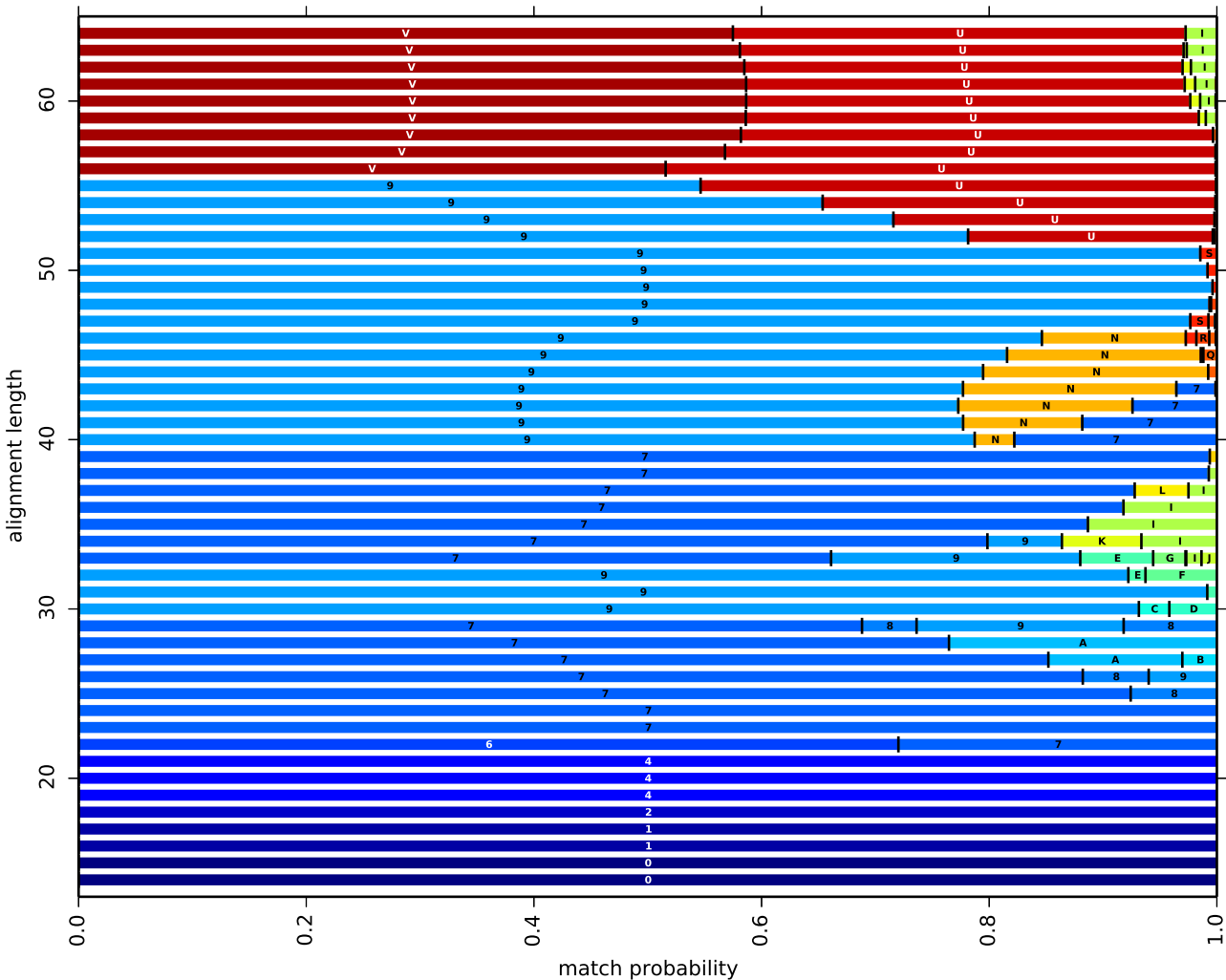
0 = 11111111111111
 1 = 11110111111111
 2 = 11110110111111

3 = 11111011111111
 4 = 11110111011111
 5 = 11111101111111

6 = 11111011101111
 7 = 11110110111011
 9 = 1111010110011011

O = 1110111011010111
 V = 1110101100110010111
 W = 111011011001010111

\int_x^1 Hit Integration (n:1,w:13)



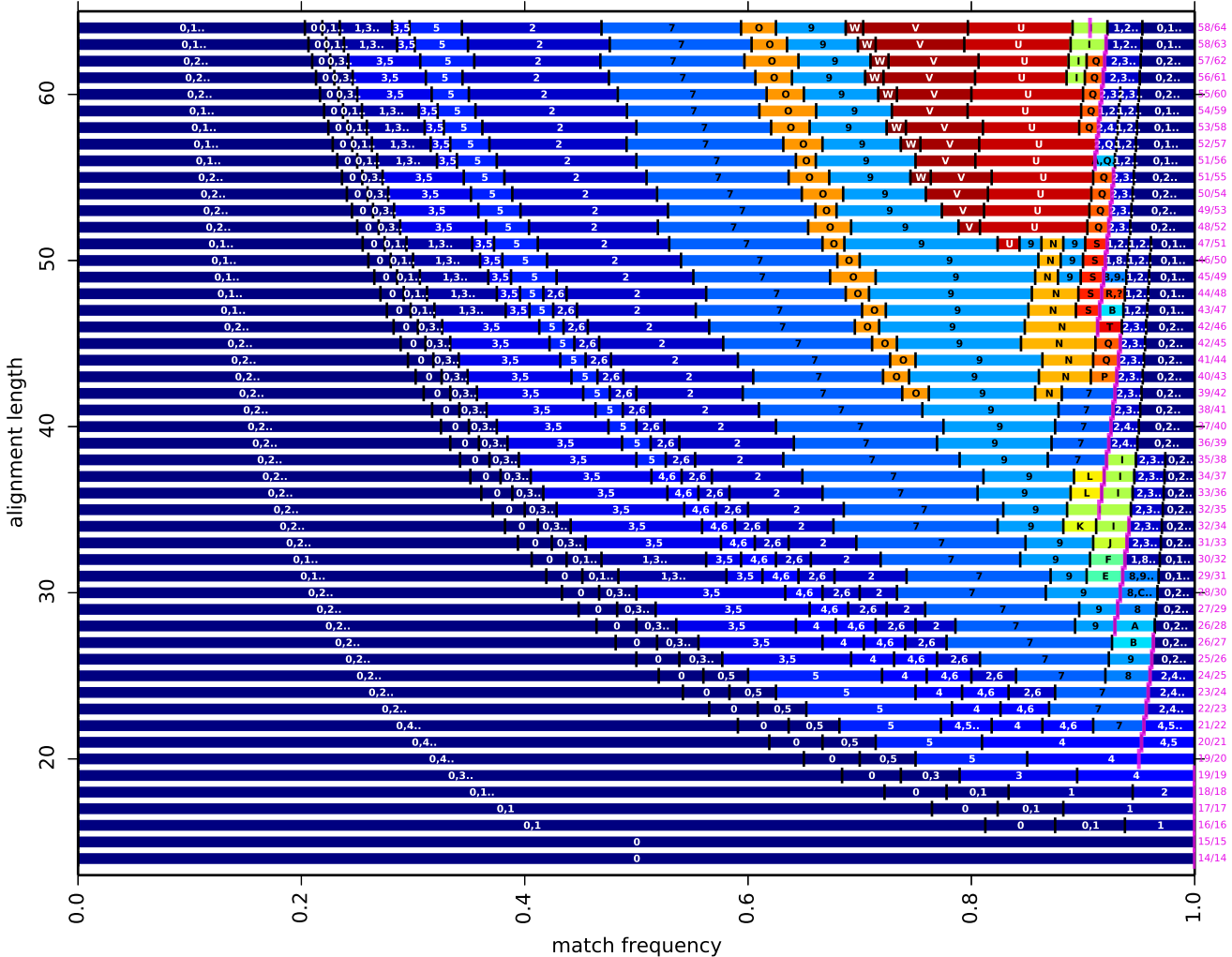
0 = 1111111111111
 1 = 1111011111111
 2 = 1111011101111
 4 = 1111011110111
 6 = 1111101110111
 7 = 1111011011101
 8 = 1111011100101

9 = 11110101100110111
 A = 11111001101011111
 B = 11011110001101111
 C = 11101101011001111
 D = 1110110100101110111
 E = 1111010100110011111

F = 1101111000100110111
 G = 1111001100101011111
 I = 101111000100110101111
 J = 111011010000011101111
 K = 111010100101100111111
 L = 111100101010011001111

N = 1110111011010011111
 Q = 10111001011111010111
 R = 1011110010111010111
 S = 11101100101111010111
 U = 111010011010011101011
 V = 11101011001100101111

Dirac (n:1,w:13)



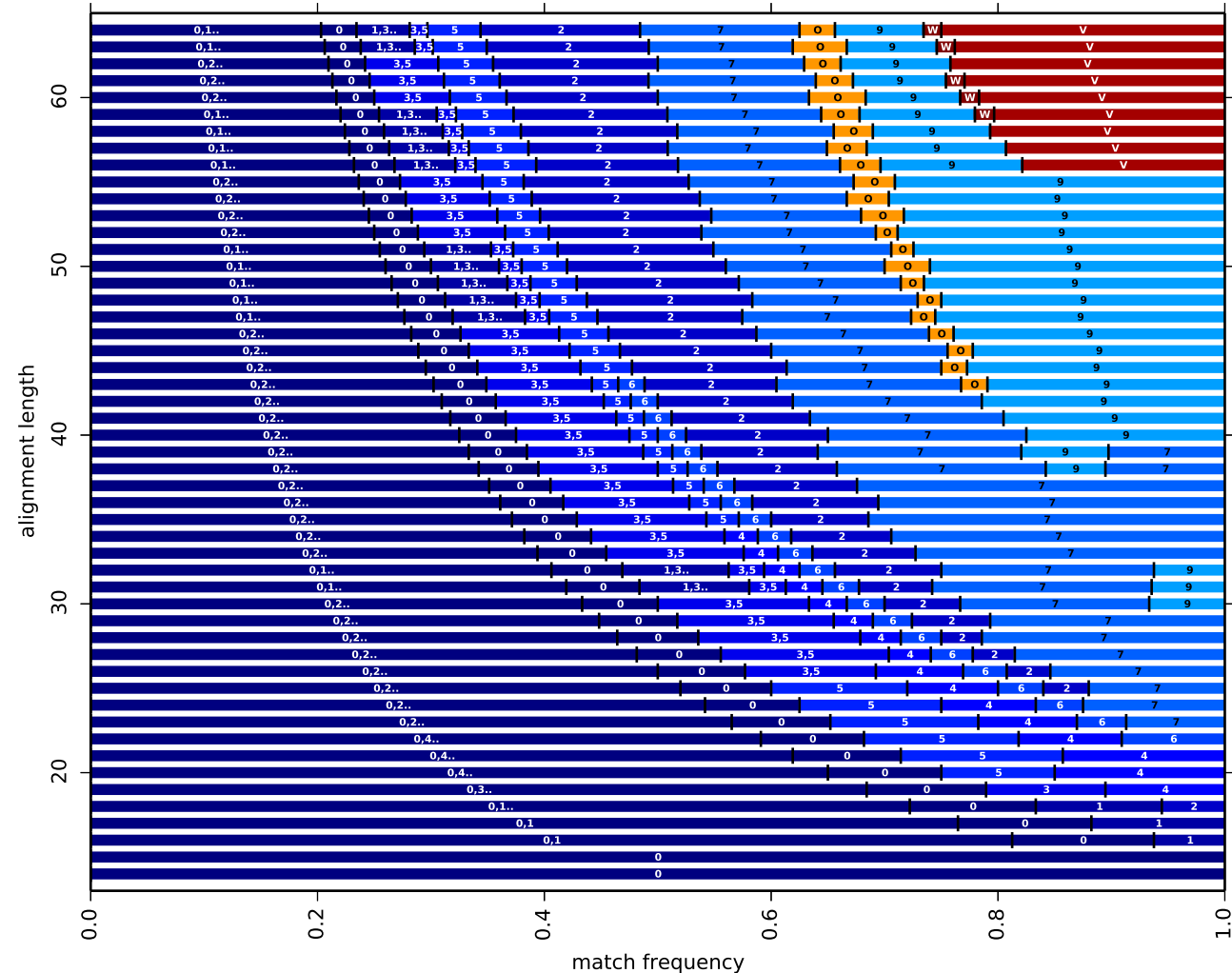
0 = 11111111111111
 1 = 11110111111111
 2 = 11110111011111
 3 = 11110110111111
 4 = 11110111011111
 5 = 11111101111111
 6 = 11111011111111
 7 = 1111011011101111
 8 = 1111011100101111

9 = 111101011001101111
 A = 111110011010111111
 B = 110111100011011111
 C = 110110101100111111
 D = 110110100101110111
 E = 111010100110011111
 F = 11011110001001101111
 G = 11110011001010111111

H = 11110101100100011111
 I = 10111100010011010111
 J = 11011010000011101111
 K = 11010101001011001111
 L = 11110010101001100111
 M = 1011100010001001101111
 N = 11011011011010011111
 O = 110111011010101111

P = 101111000100010010010111
 Q = 101110010111110111
 R = 101111001011101111
 S = 111011001011110111
 T = 11111000010001000100011111
 U = 11101001101001110111
 V = 11101011001100101111
 W = 111011011001010111

$$\sum_x \text{Heaviside}(n;1,w:13)$$



```

0 = 11111111111111
1 = 11110111111111
2 = 11110110111111
3 = 11110110111111
4 = 11110110111111
5 = 11111101111111
6 = 11111011011111
7 = 1111011011101111
8 = 1111011001011111

```

```

9 = 111101011001101111
A = 111110011010111111
B = 110111100011011111
C = 111101010110011111
D = 11110110100101101111
E = 11110101001100111111
F = 1110111100010011011111
G = 11110011001010111111

```

```

H = 11110101100100011111
I = 1011110001001101011111
J = 1110110100000111011111
K = 1110101001011001111111
L = 1111001010100110011111
M = 101111000100010011011111
N = 1110111011010011111111
O = 11101110110101111111

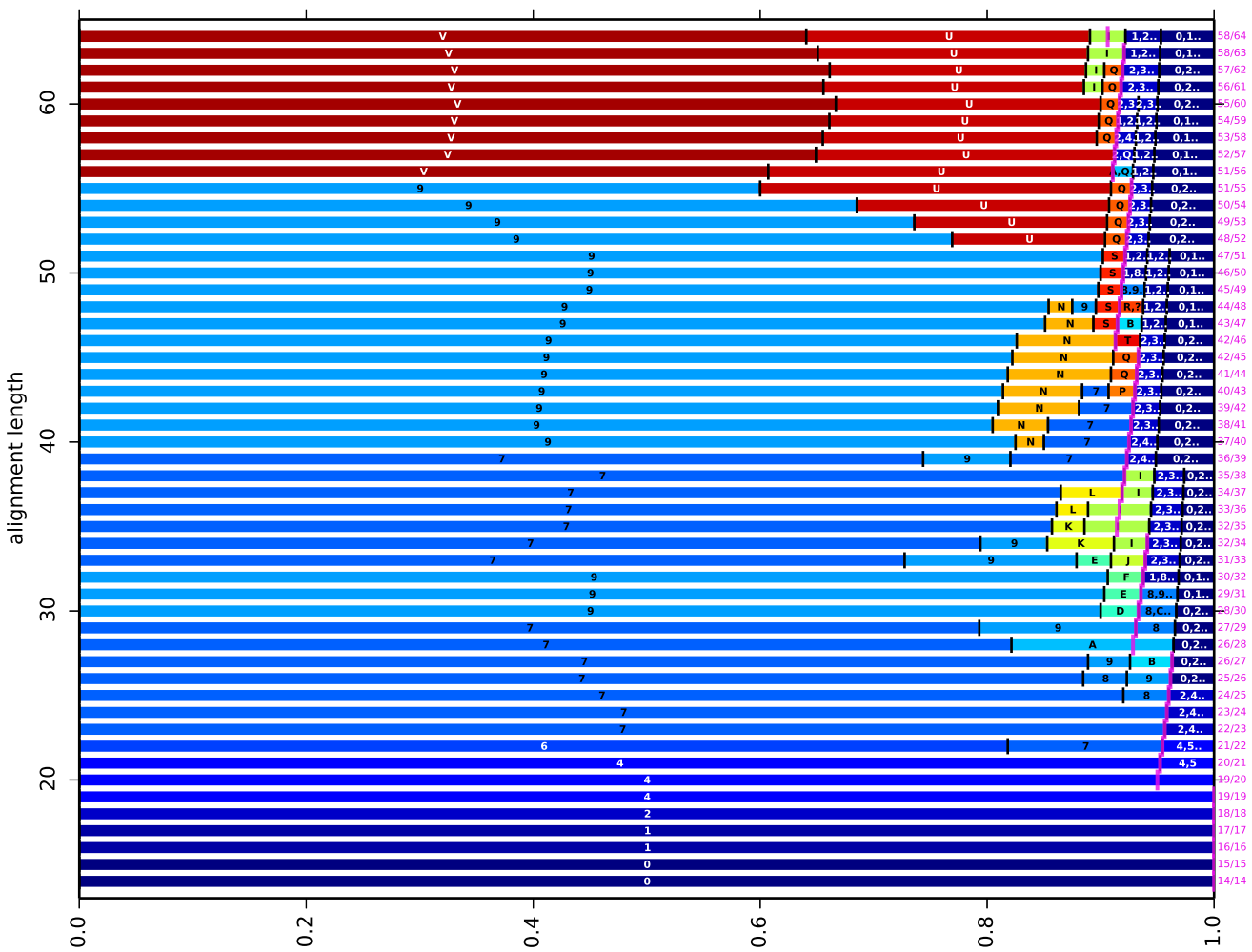
```

```

P = 10111100010001001001011111
Q = 1011100101111101111111
R = 1011110010111101111111
S = 1110110010111111111111
T = 1111100001000100010001111111
U = 111010011010011101111111
V = 111010110011001011111111
W = 111011011001010111111111

```


$$\sum_x^1 \text{Heaviside}(n:1,w:13)$$



```

0 = 1111111111111
1 = 1111011111111
2 = 1111011101111
3 = 1111011111111
4 = 1111011110111
5 = 1111110111111
6 = 1111101110111
7 = 111101101110111
8 = 111101110010111

```

```

9 = 11110101100110111
A = 1111100110101111
B = 11011110001101111
C = 11101101011001111
D = 11101101001011011
E = 11110101001100111
F = 1101111000100110111
G = 11110011001010111

```

```

H = 1111010110010001111
I = 10111100010011010111
J = 11101101000001110111
K = 111010100101001111
L = 1111001010100110011
M = 10111100010001001111
N = 11101110110100111
O = 1110111011010111

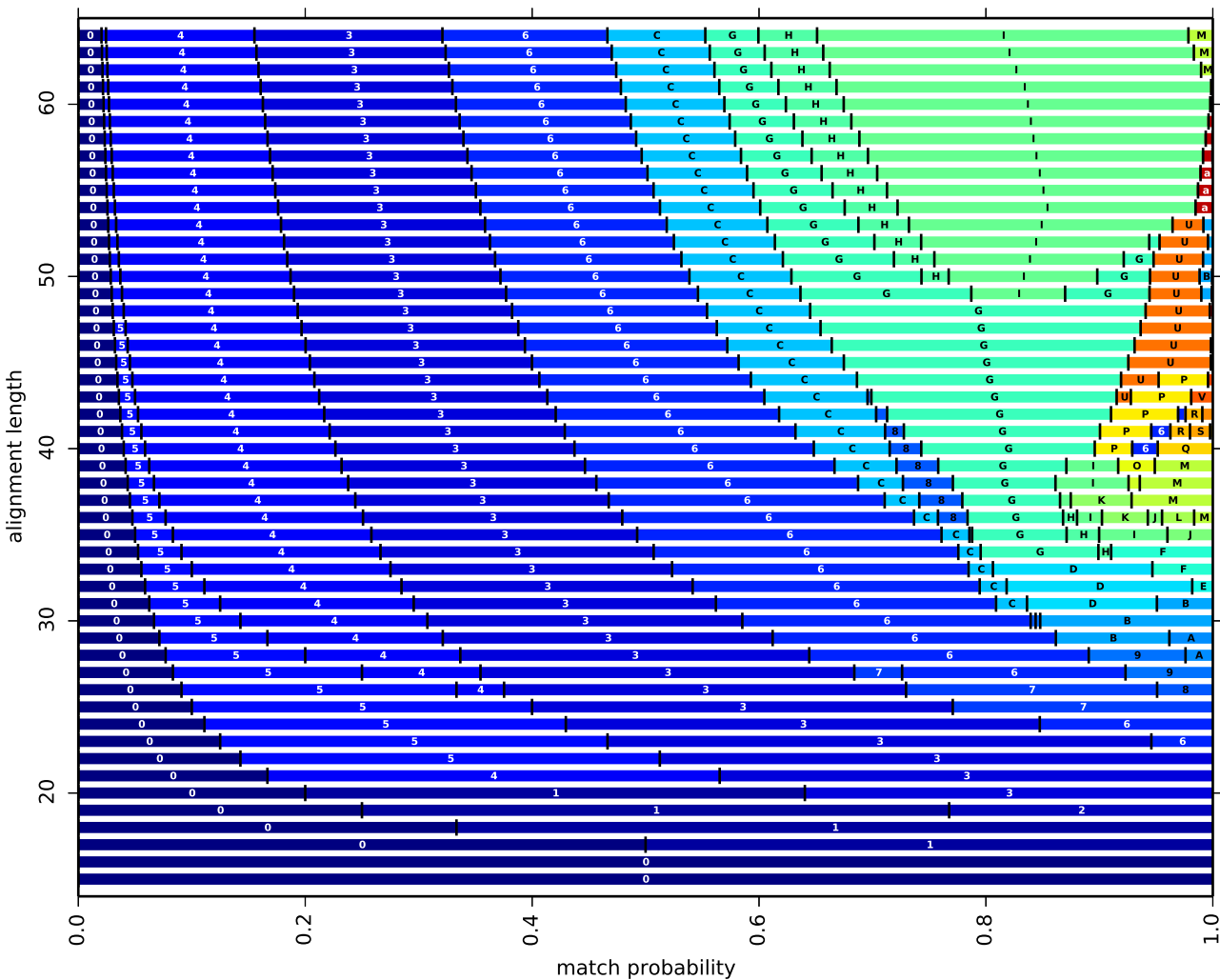
```

```

P = 10111100010001001001111
Q = 101110010111110111
R = 10111100101110111
S = 111011001011110111
T = 1111100001000100010001111
U = 11101001101001110111
V = 11101011001100101111
W = 111011011001010111

```

Bernoulli (n:1,w:14)



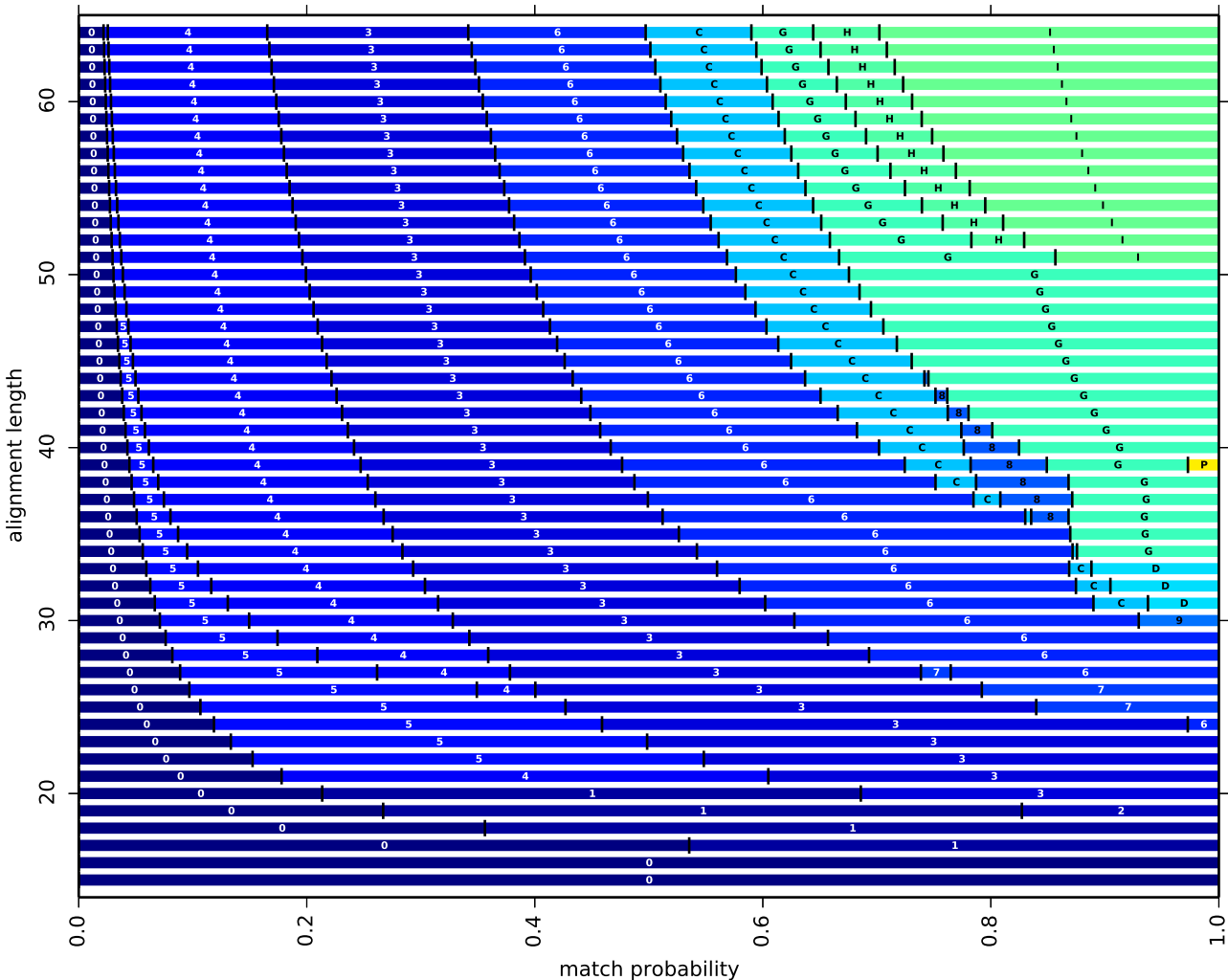
0 = 11111111111111
 1 = 11111011111111
 2 = 11101111011111
 3 = 1111101111011111
 4 = 1111110111111111
 5 = 1111111011111111
 6 = 111101101111011111
 7 = 111101110110111111

8 = 111011101101011111
 9 = 111110100111011111
 A = 1101111100011011111
 B = 1110111101001101111
 C = 111101011101101111
 D = 111101100110101111
 E = 11101110100101110111
 F = 11111001100101011111

G = 1111010111001101111
 H = 11110101011001101111
 I = 11101110010110011111
 J = 11011110001001101111
 K = 111101001100110101111
 L = 11010111000100110101111
 M = 11010111100010011010111
 O = 1111001101010010011111

P = 111011010111011111
 Q = 110111100010001001101111
 R = 11101111011011111
 S = 11110011011000010101111
 U = 1111010011011101111
 V = 1011110001000100110101111
 a = 110111100101110010111

\int_0^x Hit Integration (n:1,w:14)



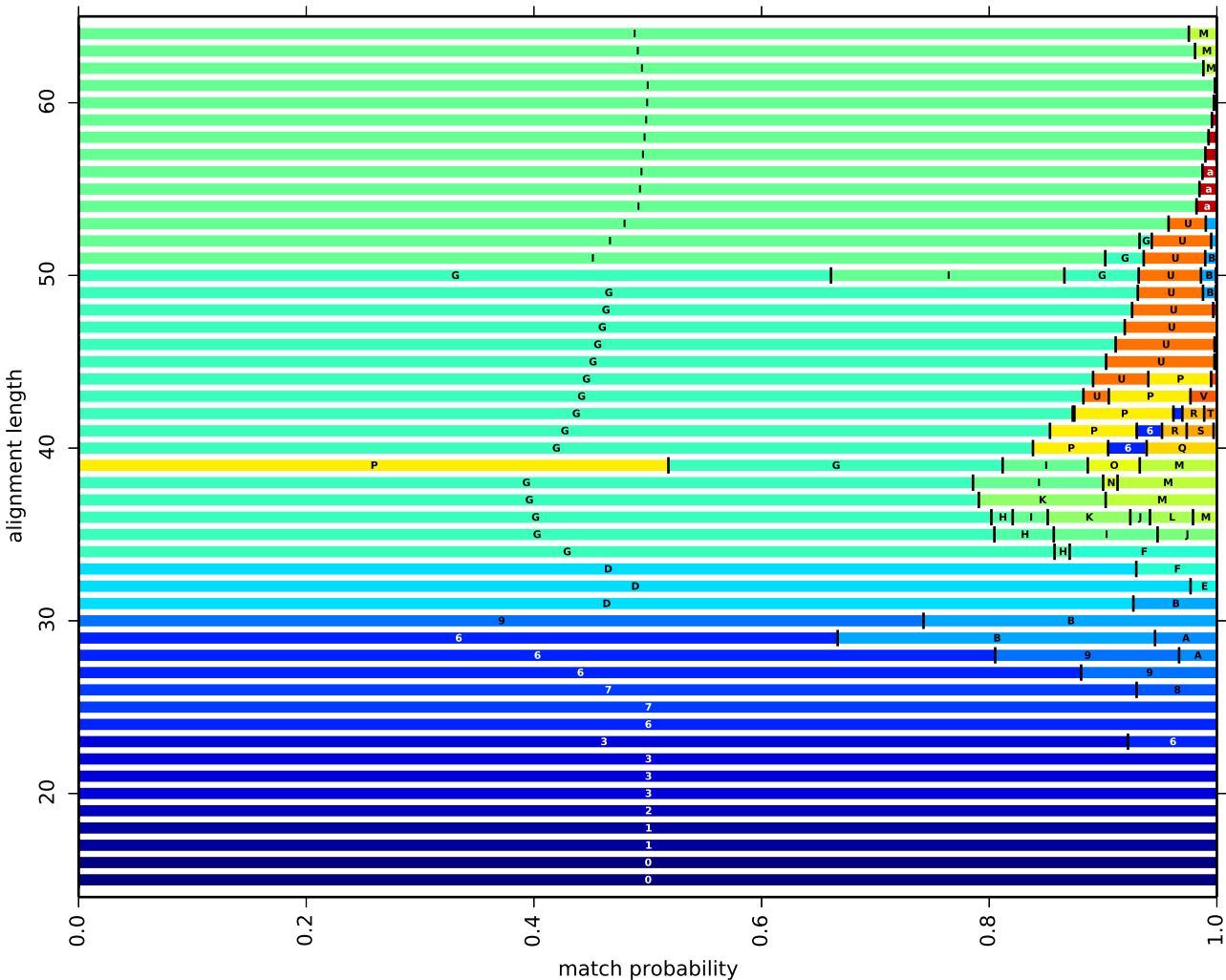
0 = 11111111111111
 1 = 11111011111111
 2 = 11101111101111
 3 = 11111011110111

4 = 11111011111111
 5 = 11111101111111
 6 = 11110110111011
 7 = 11110110110111

8 = 11101110110111
 9 = 11111010011101
 C = 11110101110111
 D = 11110110011011

G = 11110101110011
 H = 11111010110011
 I = 11101110010111
 P = 11101101011101

\int_x^1 Hit Integration (n:1,w:14)



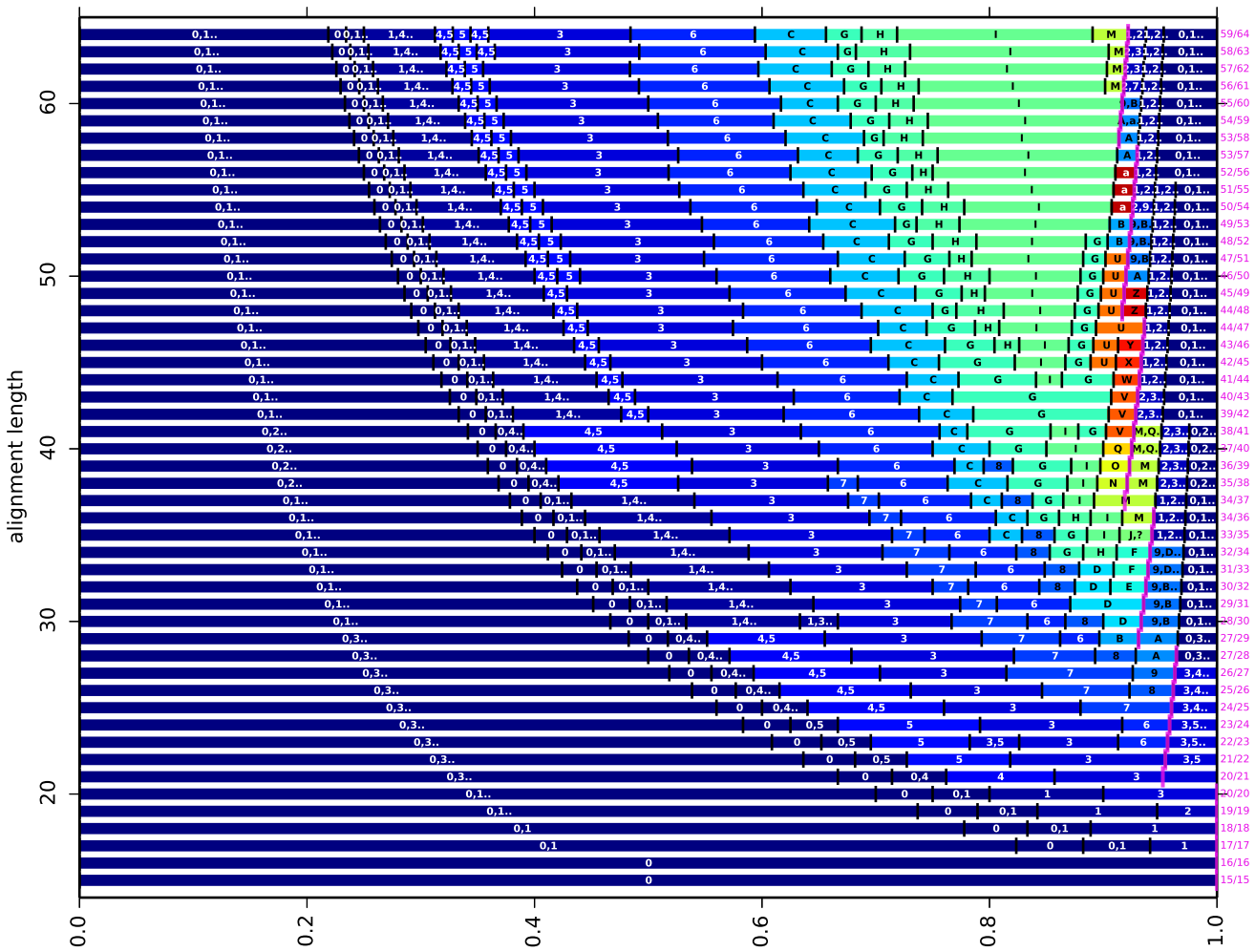
0 = 11111111111111
 1 = 11111011111111
 2 = 11101111011111
 3 = 11111011110111
 6 = 11110110111011
 7 = 11110111011011
 8 = 11101110110111
 9 = 11111010011101

A = 1101111000110111
 B = 1110111101001111
 D = 1111011001101111
 E = 1110111010010111
 F = 1111100110010111
 G = 1111010111001111
 H = 1111010101001111
 I = 1110111001011001

J = 1101111000100111
 K = 1111010011001111
 L = 1101011100010011
 M = 1101011110001001
 N = 1111001100101001
 O = 1111001101010011
 P = 1110110101110111

Q = 1101111000100011
 R = 1110111101101111
 S = 1111001101100001
 T = 1101111000010001
 U = 1111010011011011
 V = 1011110001000101
 a = 1101111001011100

Dirac (n:1,w:14)



```

0 = 11111111111111
1 = 11111011111111
2 = 11101111011111
3 = 11111011101111
4 = 11111011111111
5 = 11111110111111
6 = 1111011011101111
7 = 1111011011011111
8 = 1110111011011111
9 = 1111101001101111

```

```

A = 110111110001101111
B = 111011110100110111
C = 1111011101101111
D = 111101100110101111
E = 111101101001011111
F = 111110011001011111
G = 111101011100110111
H = 11110101011001101111
I = 11101110010110011111
J = 11011110001001101111

```

```

K = 11110100110011011111
L = 1101011100010011011111
M = 110101110001001101011111
N = 1111001100101010011111
O = 1111001101010010111111
P = 111011010111011111
Q = 1101111000100011011111
R = 111011110110111111
S = 111100110110000101011111
T = 11011110000100010011011111

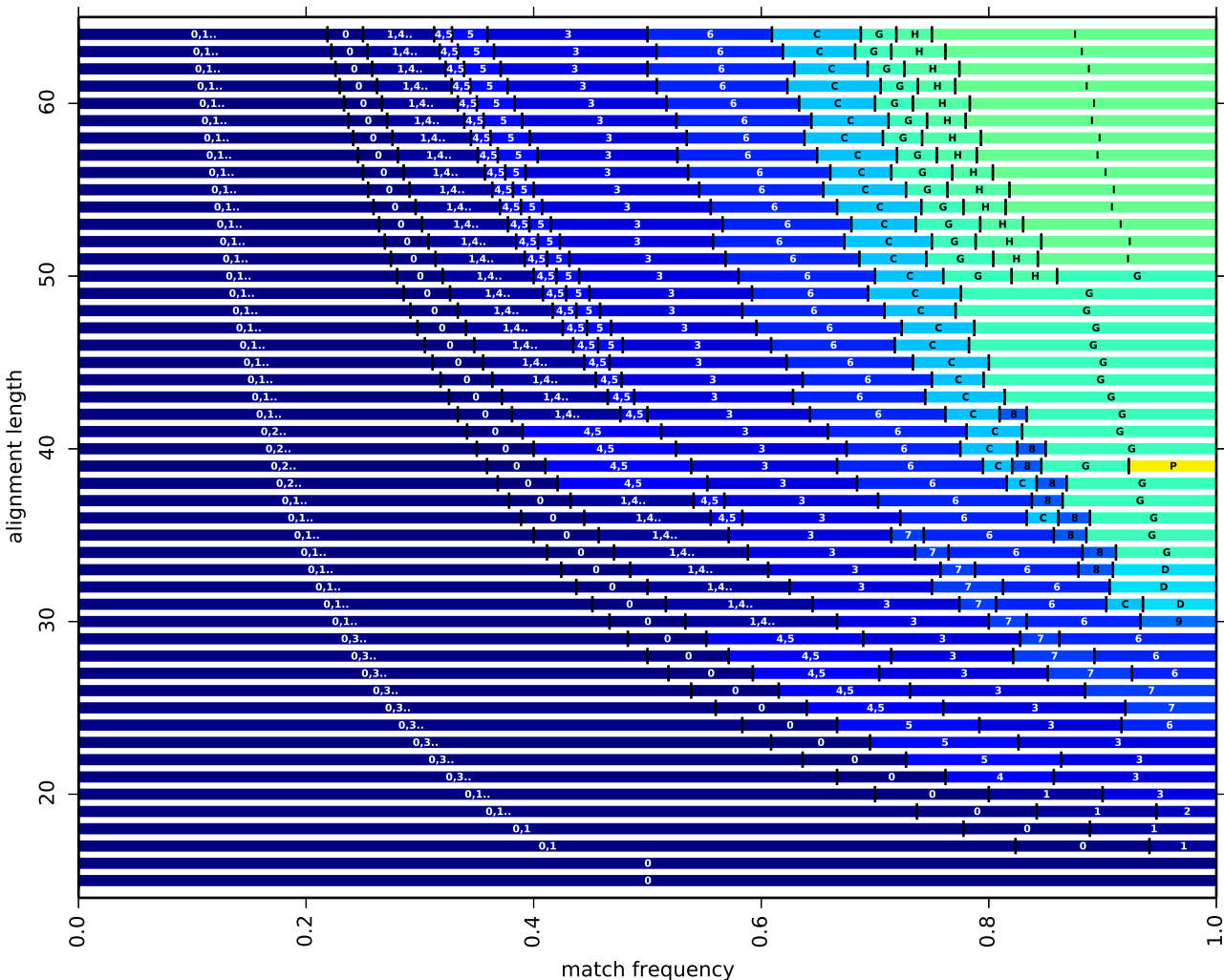
```

```

U = 11110100110111011111
V = 101111000100010011011111
W = 11010111000000010011011111
X = 1010111100001001000101011111
Y = 1101011100000000000101011111
Z = 1011111000010000100001011111
a = 1101111001011100101111
b = 1110100111010011101111
c = 111100110001010100111111

```

$$\sum_0^x \text{Heaviside}(n;1,w:14)$$



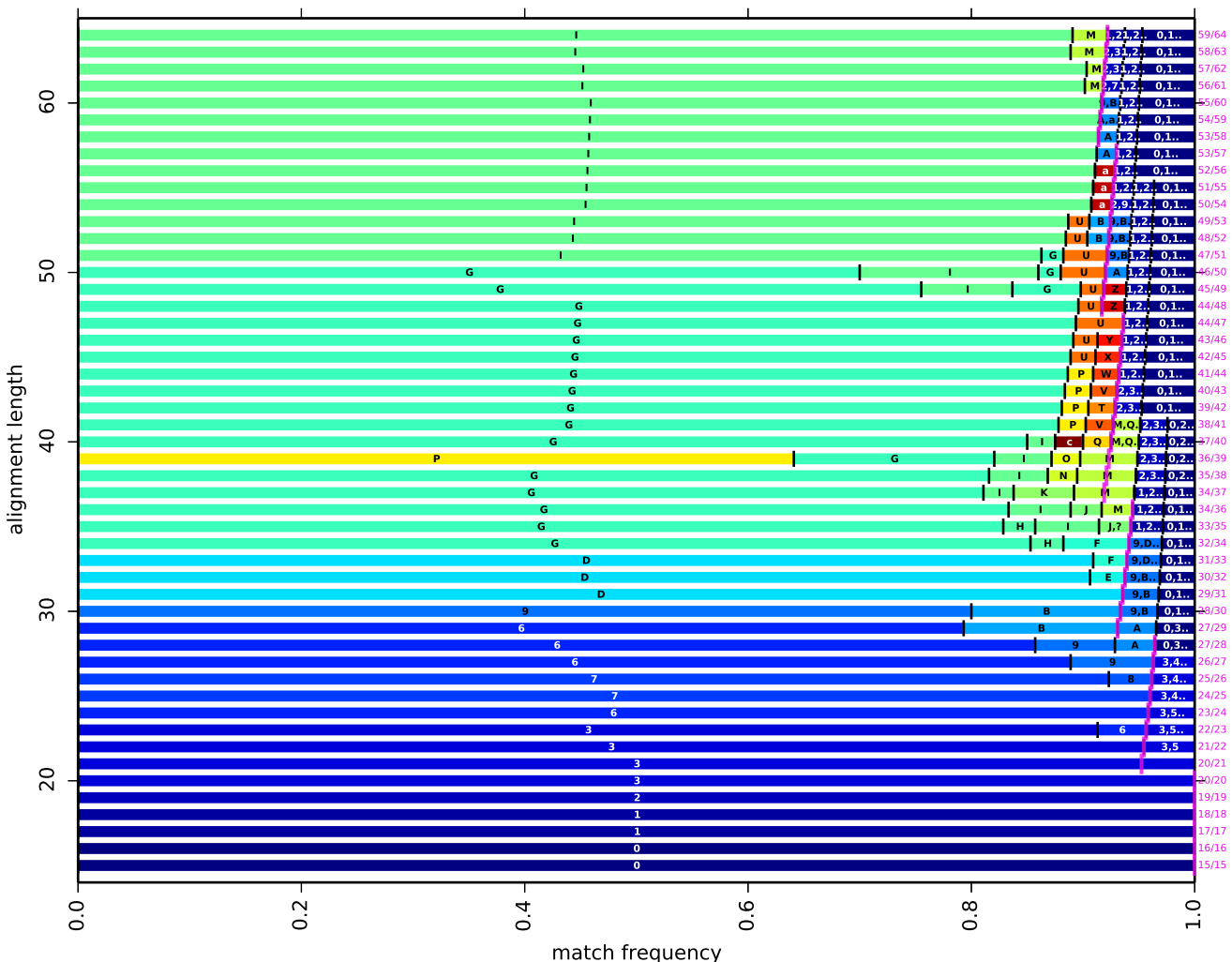
0 = 11111111111111
 1 = 11111011111111
 2 = 111011111011111
 3 = 111110111101111
 4 = 11111101111111
 5 = 11111110111111
 6 = 111101101110111
 7 = 111101110110111
 8 = 111011101101111
 9 = 111110100110111

A = 1101111000110111
 B = 110110110100111
 C = 111101111011011
 D = 111101100101011
 E = 111011101001011
 F = 111110011001011
 G = 111101011100111
 H = 111101011001011
 I = 111011100101101
 J = 110111100010011

K = 111101001100101
 L = 110101110001001
 M = 110101110001001
 N = 111100110010100
 O = 111100110100100
 P = 111011010111011
 Q = 110111100010001
 R = 111011110110111
 S = 111100110110000
 T = 110111100001000

U = 111101001101101
 V = 101111000100010
 W = 110101110000001
 X = 101011110000100
 Y = 110101110000001
 Z = 101111100001000
 a = 110111100101110
 b = 111010011101001
 c = 111100110001010

$$\sum_x^1 \text{Heaviside}(n:1,w:14)$$



```

0 = 11111111111111
1 = 11111011111111
2 = 111011111011111
3 = 111110111101111
4 = 11111101111111
5 = 11111110111111
6 = 1111011011101111
7 = 1111011101101111
8 = 1110111011011111
9 = 1111101001101111

```

```

A = 110111110001101111
B = 11101111101001101111
C = 111101011101101111
D = 1111011001101011111
E = 11101110100101110111
F = 1111100110010101111
G = 1111010111001101111
H = 11110101011001101111
I = 111011100101100101111
J = 1101111000100110101111

```

```

K = 111101001100110101111
L = 11010111000100110101111
M = 110101111000100110101111
N = 1111001100101010011111
O = 111100110101001011111
P = 111011010111011111
Q = 110111100010001001101111
R = 111011110110111111
S = 11110011011000010101111
T = 1101111000010001001101111

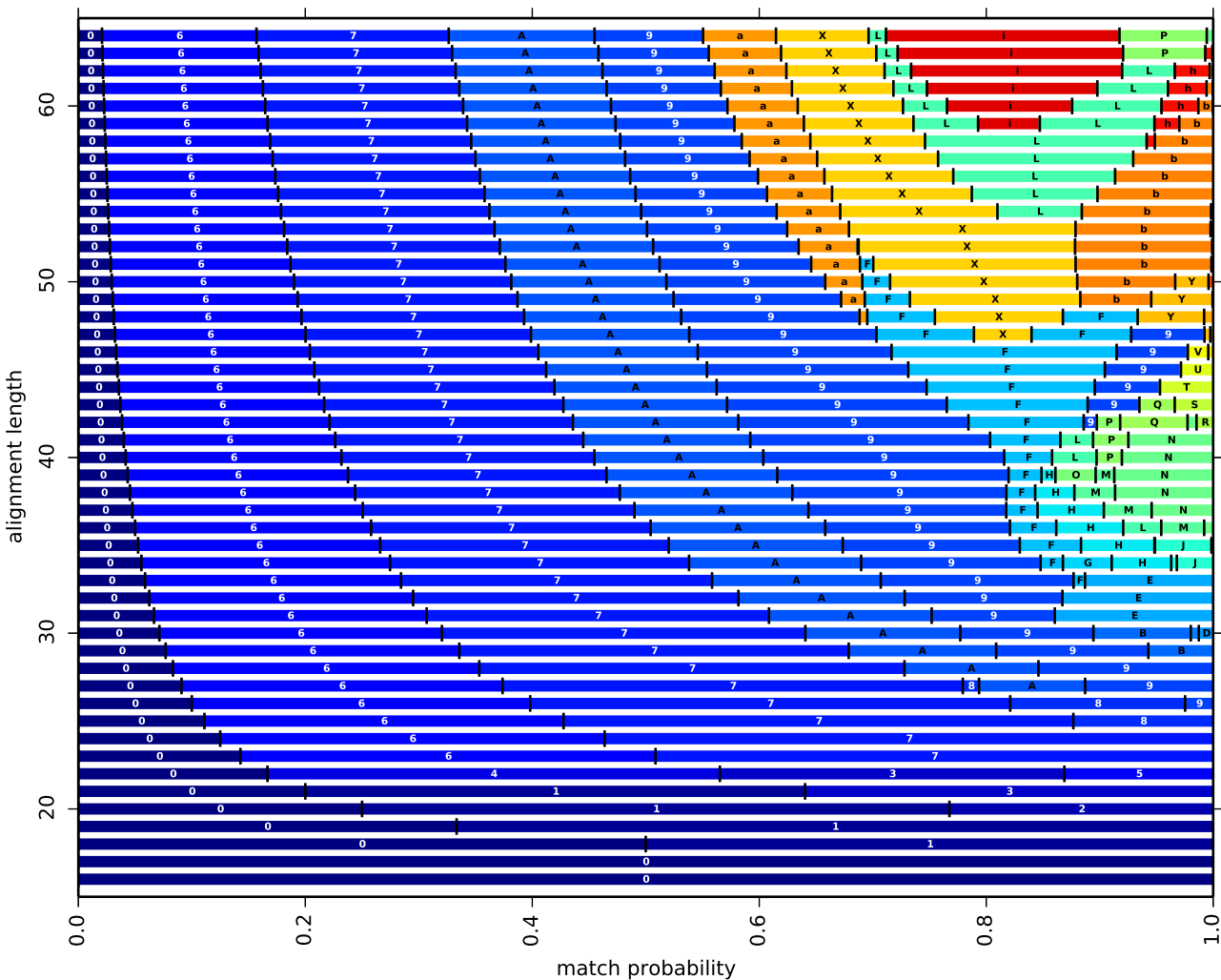
```

```

U = 1111010011011101111
V = 1011110001000100110101111
W = 110101110000000100110101111
X = 101011110000100100010101111
Y = 1101011100000000100110101111
Z = 1011111000010000100001011111
a = 1101111001011100101011
b = 1110100111010011101111
c = 11110011000101010011111

```

Bernoulli (n:1,w:15)



```

0 = 111111111111111
1 = 111110111111111
2 = 110111110111111
3 = 111101111101111
4 = 111111011111111
5 = 11110110111101111
6 = 111111101111111
7 = 11111011110111111
8 = 11110111011101111

```

```

9 = 1111011101101011111
A = 1111011110110111111
B = 11101111010011011111
D = 11110011011110001011111
E = 111011110010111011111
F = 1111101011110011011111
G = 111110011010110111111
H = 1111011001101010111111
J = 111101011100100111011111

```

```

L = 11101110010110010111111
M = 11111001101001010111111
N = 1101011110001001101011111
O = 11110101100110010111111
P = 110111010100101100111111
Q = 1111100110001010010111111
R = 110111100011000100110111111
S = 11101101000101100011011111
T = 110111100010100010011011111

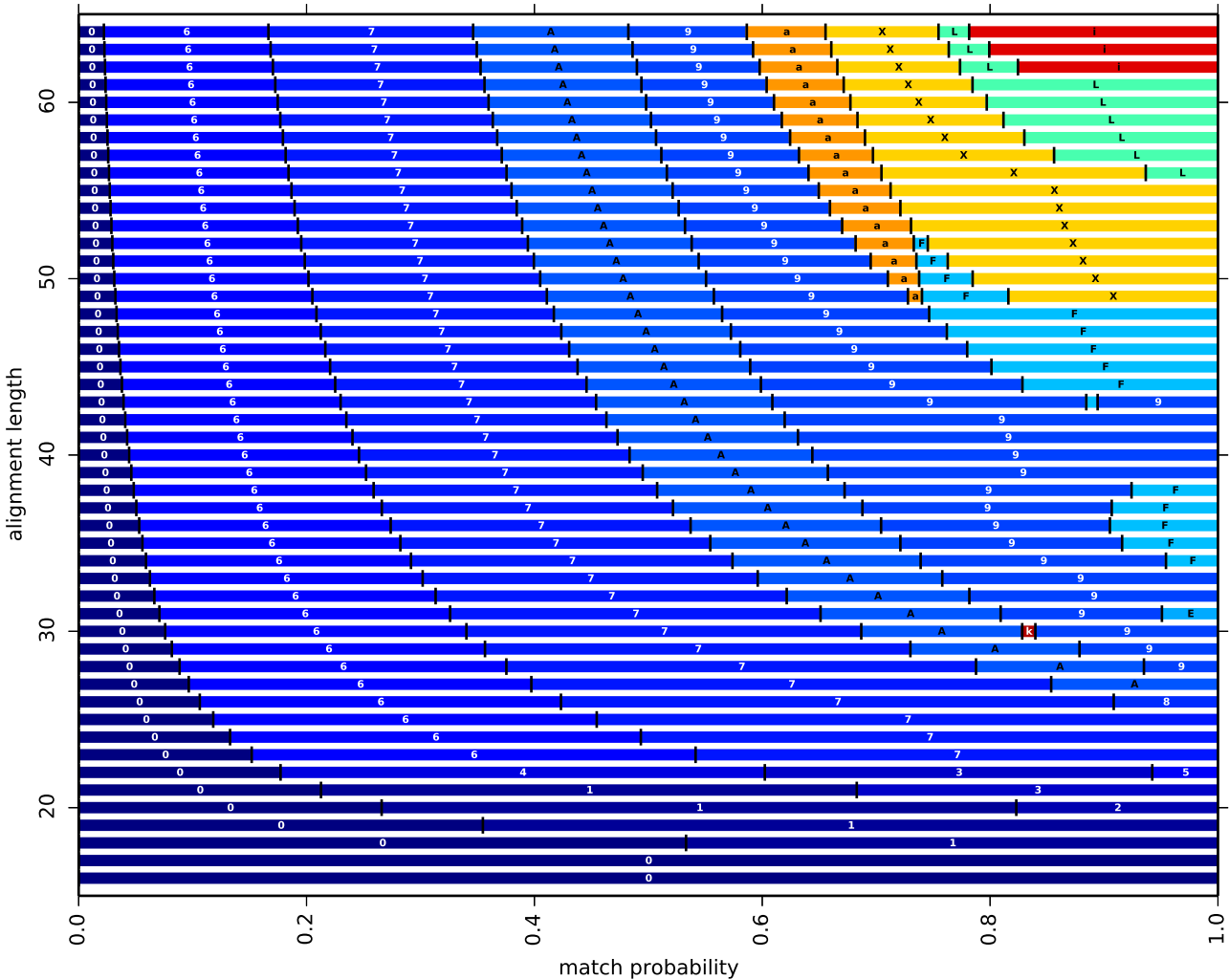
```

```

U = 11011101010000100101100111111
V = 11111000010001001010101111111
X = 111011101011010100111111111
Y = 111100101110111011111111111
a = 111011011101011011111111111
b = 11101011110100110111111111111
h = 11110100111010011011111111111
i = 11110010101011001101111111111

```


\int_0^x Hit Integration (n:1,w:15)



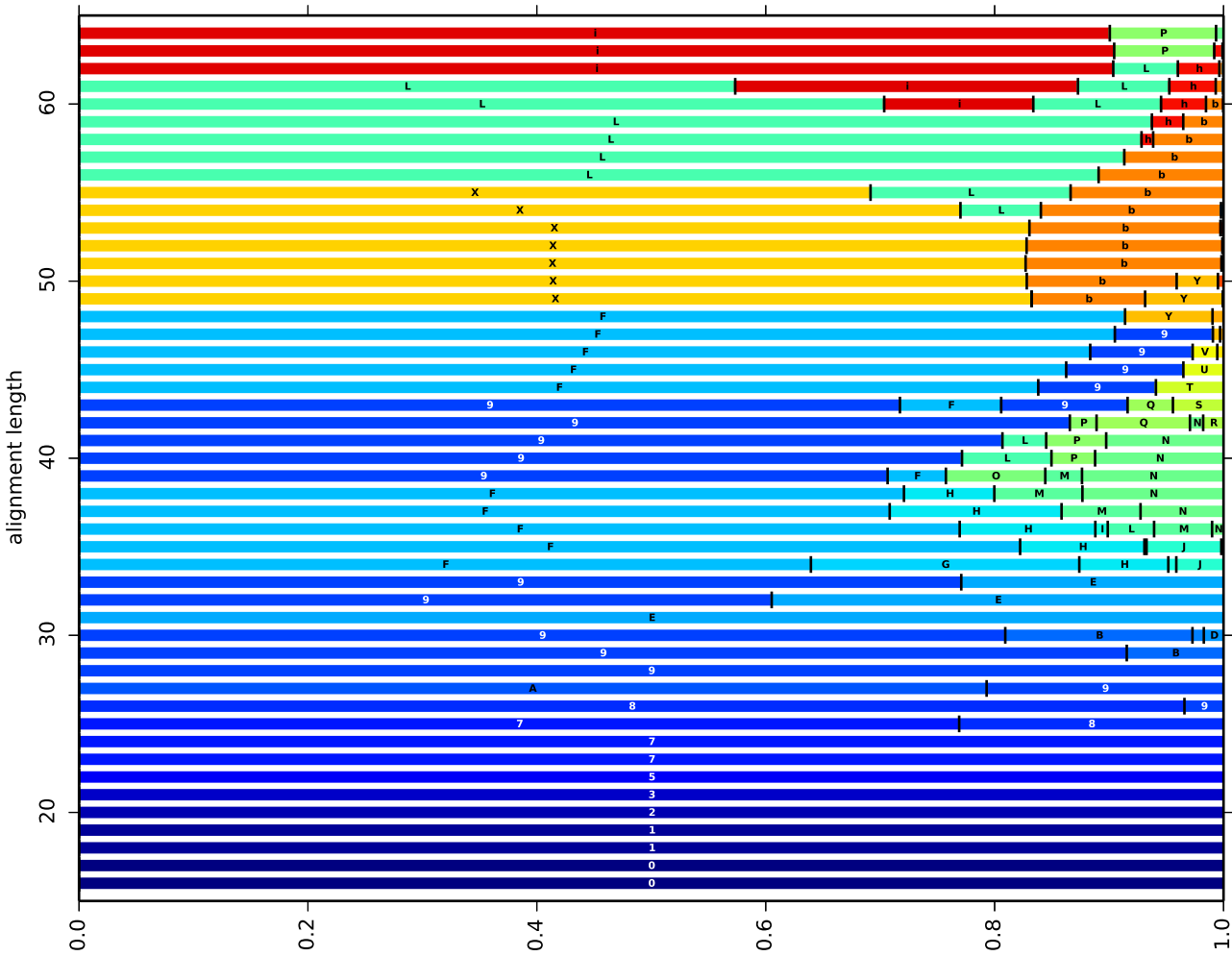
0 = 1111111111111111
 1 = 1111101111111111
 2 = 1110111101111111
 3 = 1110111110111111
 4 = 1111110111111111

5 = 11110111011101111
 6 = 1111110111111111
 7 = 1111011110111111
 8 = 11110111011101111
 9 = 111101110110101111

A = 11110111011011111
 E = 1110111100101110111
 F = 1111010111001101111
 L = 111011100101100101111

X = 11101110101010011111
 a = 1111010111010101111
 i = 11110010101011001101111
 k = 1111101101110111111

\int_x^1 Hit Integration (n:1,w:15)



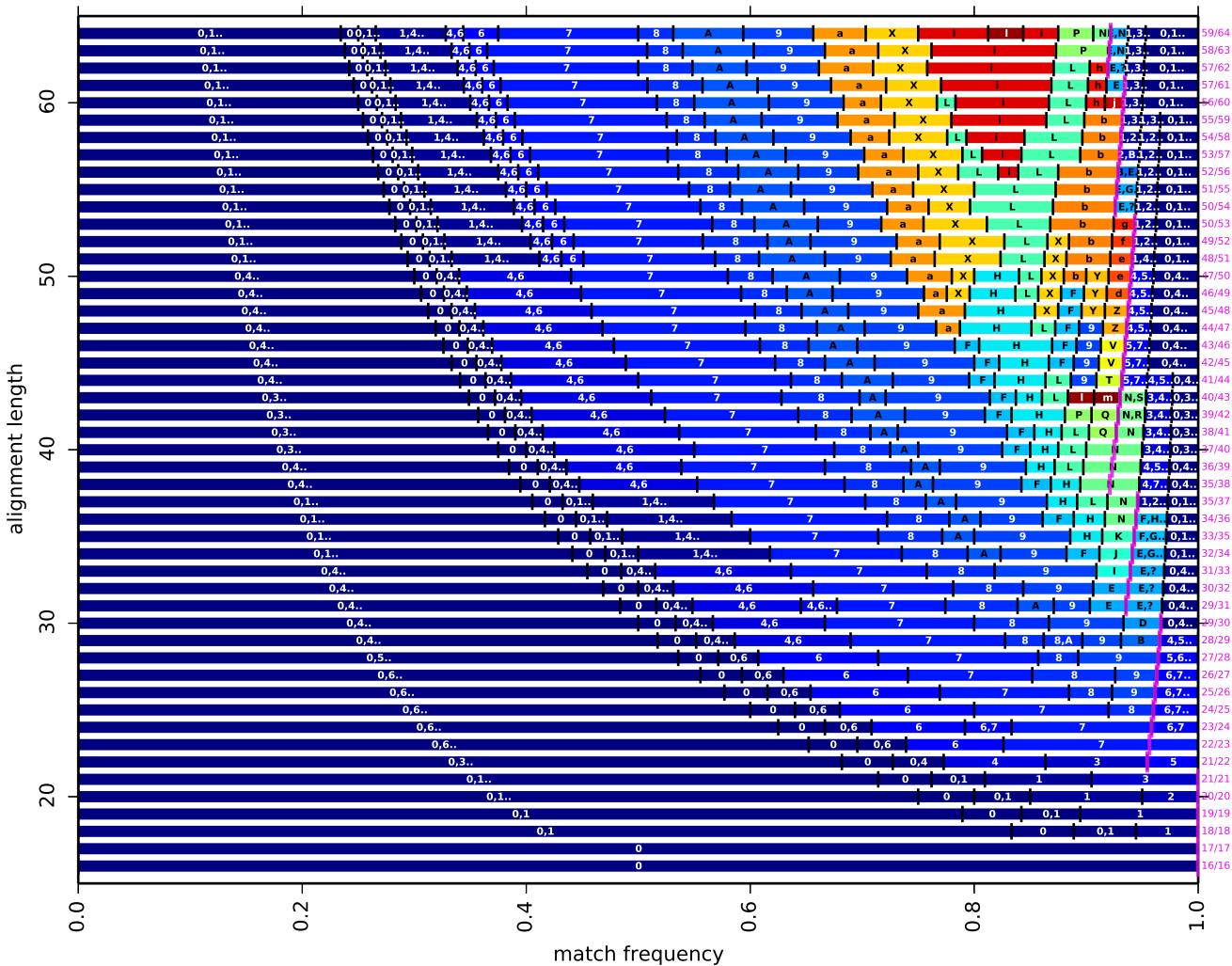
0 = 1111111111111111
 1 = 1111101111111111
 2 = 1110111110111111
 3 = 1111011111011111
 5 = 111101110111101111
 7 = 111110111101111111
 8 = 111101110111011111
 9 = 111101110110101111
 A = 111101110110111111

B = 11101111010011011111
 D = 1111001101111000101111
 E = 11101111001011101111
 F = 11111011110011011111
 G = 11111001101011011111
 H = 11110110011010101111
 I = 11111010110001101111
 J = 1111010110010011101111

L = 1110111001011001011111
 M = 1111100110100101011111
 N = 110101111000100110101111
 O = 1111010110011001011111
 P = 11011101010010110011111
 Q = 111110011000101001011111
 R = 1101111000110001001101111
 S = 1110110100010110001101111

T = 11011110001010001001101111
 U = 1101110101000001001010011111
 V = 11111000010001100101011111
 X = 1110111010110100111111
 Y = 11110010111011101111
 b = 1110101111010011011111
 h = 1111010011101001101111
 i = 111100101010110011011111

Dirac (n:1,w:15)



```

0 = 1111111111111111
1 = 1111101111111111
2 = 1110111110111111
3 = 1111011111011111
4 = 1111110111111111
5 = 1111011101101111
6 = 1111111011111111
7 = 1111101111011111
8 = 1111011101110111
9 = 1111101101101011
A = 1111011101101111
B = 1110111101001101
C = 1110111100101011

```

```

D = 11110011011100010111
E = 11101111001011101111
F = 11110101110011011111
G = 11111001101011011111
H = 11110110011010101111
I = 11111011100011011111
J = 1111010110010011011111
K = 1111011110001011011111
L = 1110111001011001011111
M = 1111100110100101011111
N = 110101111000100110101111
O = 1111010110011001011111

```

```

P = 110111010100101100111111
Q = 111110011000101001011111
R = 11011110001100010011011111
S = 11101101000101100010111111
T = 11011110001010001001111111
U = 11011110101000100110011111
V = 11111000100010010010111111
W = 1101111000100100010011011111
X = 1110111010110100111111
Y = 1111001011101101111111
Z = 1110111000001001001011101111
a = 1110110111010101011111

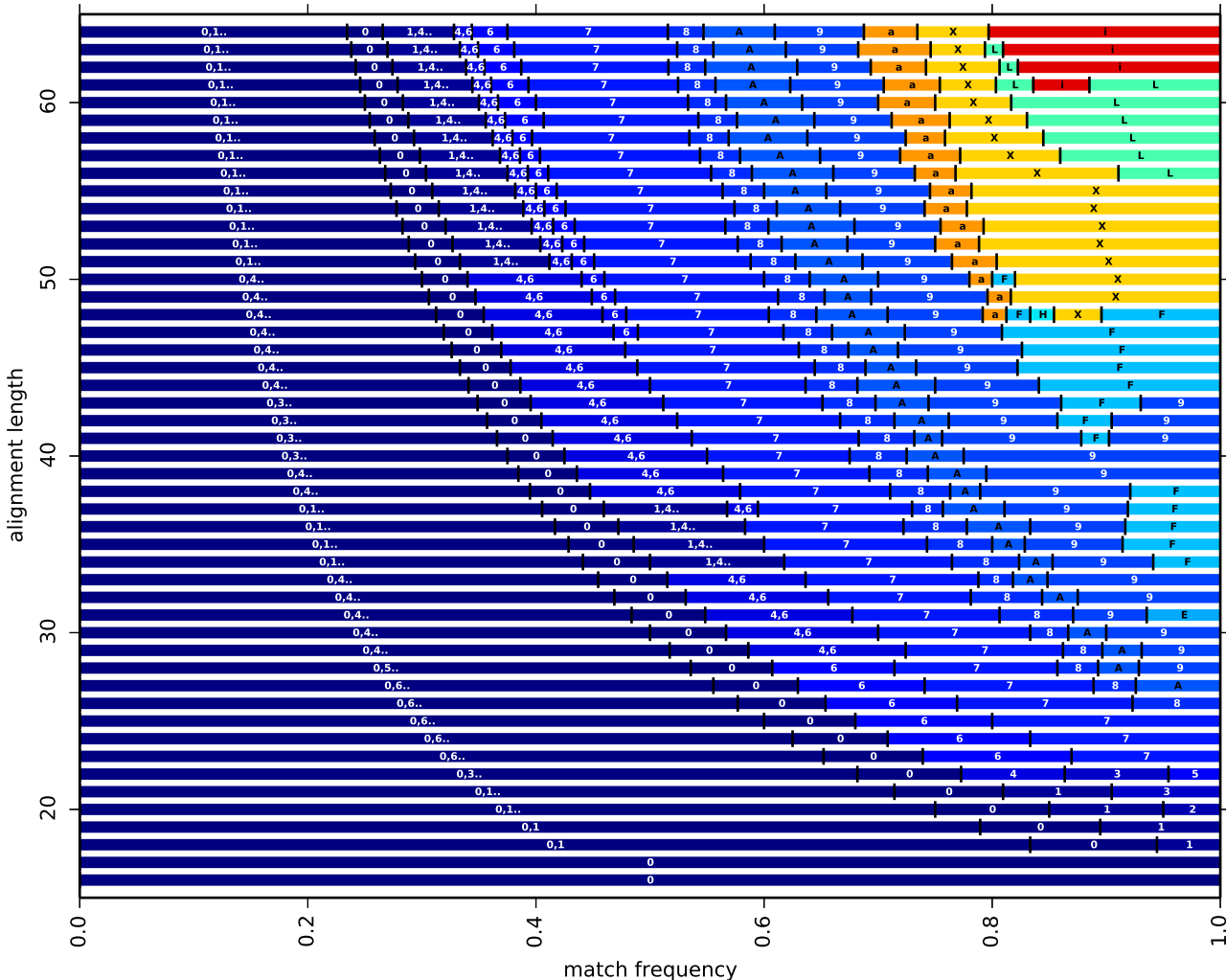
```

```

b = 1110101111010011011111
c = 110111110000100001000010111111
d = 110111110000000010001011111111
e = 110101111000000001001010111111
f = 1110111001011111011111
g = 1101011110001010111111
h = 111101001110100110111111
i = 111100101010100110111111
j = 111010011101001110111111
k = 11111011011011111111
l = 11110010110011001010111111
m = 1101111000100010011010111111

```

$$\sum_0^x \text{Heaviside}(n:1,w:15)$$



```

0 = 1111111111111111
1 = 1111101111111111
2 = 1110111110111111
3 = 1111011110111111
4 = 1111101111111111
5 = 11110111011101111
6 = 1111110111111111
7 = 1111101111011111
8 = 1111011011101111
9 = 11110110110101111
A = 11110111011011111
B = 1110111101001101111
C = 111011110010101111

```

```

D = 111100110111000101111
E = 11101111001011101111
F = 11110101110011011111
G = 11111001101011011111
H = 11110110011010101111
I = 111110110110001101111
J = 111101011001001101111
K = 111101111000101101111
L = 111011100101100101111
M = 111110011010010101111
N = 11010111100010011010111
O = 111101011001100101111

```

```

P = 11011101010010110011111
Q = 111110011000101001011111
R = 1101111000110001001101111
S = 1110110100010110001101111
T = 11011110001010001001101111
U = 11011101010000100101100111
V = 111100001000110010101111
W = 110111100010010001001101111
X = 111011101011010011111
Y = 11110010111011101111
Z = 111011100000100100101110111
a = 1110110111010101111

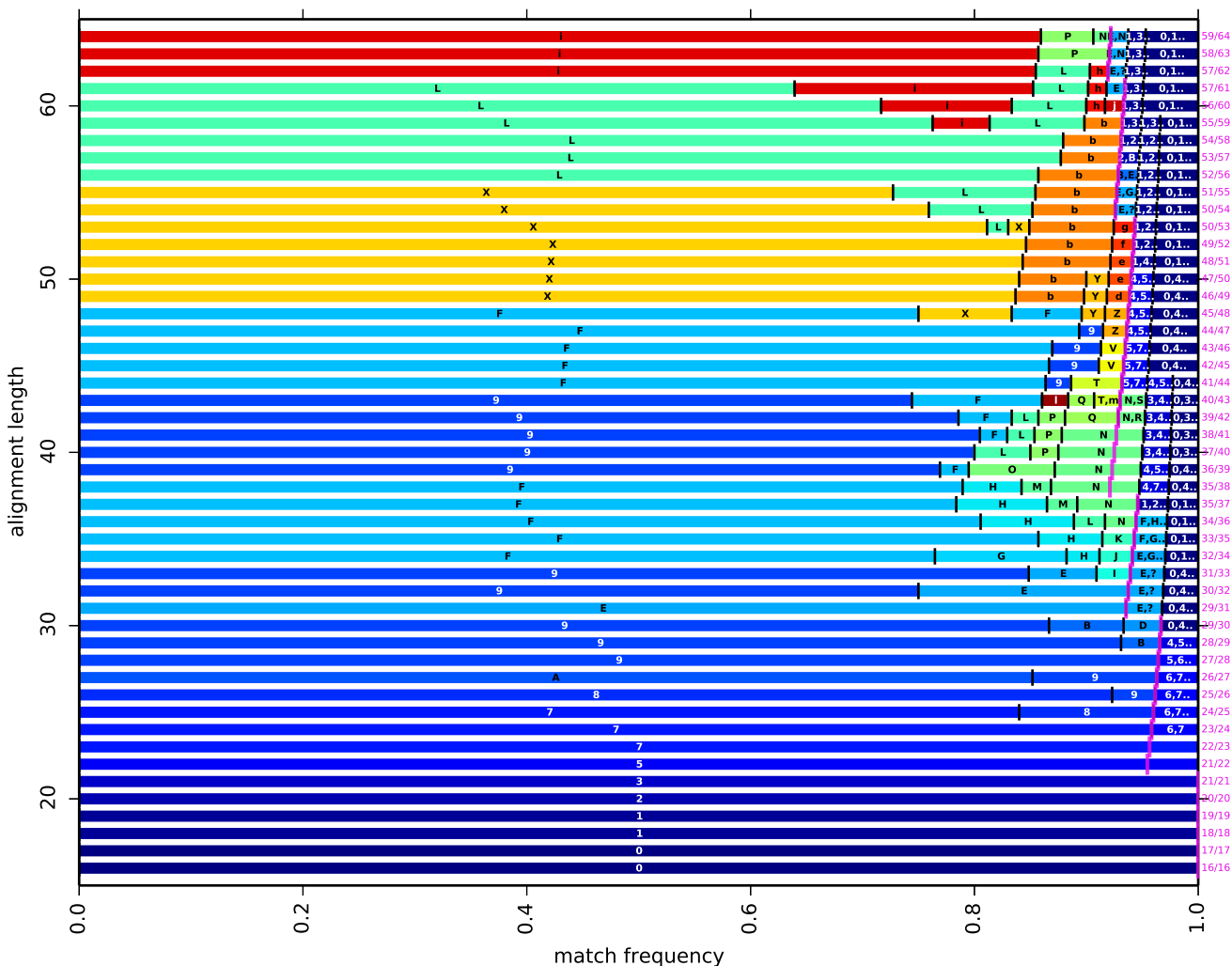
```

```

b = 111010111101001101111
c = 11011111000010000100001011111
d = 110111110000000010001011111
e = 11010111100000000100110101111
f = 11101110010111101111
g = 110101111100010101111
h = 111101001101001101111
i = 11110010101011001101111
j = 1110100111010011101111
k = 11111011011101111
l = 111100101100110010101111
m = 11011110001000100110101111

```

$$\sum_x^1 \text{Heaviside}(n:1,w:15)$$



```

0 = 111111111111111
1 = 111110111111111
2 = 1110111110111111
3 = 1111011111011111
4 = 111110111111111
5 = 1111011101110111
6 = 111111101111111
7 = 1111101111011111
8 = 1111011101110111
9 = 1111101101101111
A = 1111011101101111
B = 1110111101001111
C = 1110111100101111

```

```

D = 11110011011100010111
E = 11110111001011101111
F = 1111010111001011111
G = 11111001101011011111
H = 11110110011010111111
I = 11111010110001101111
J = 1111010110010011101111
K = 1111011110000101110111
L = 1110111001011001011111
M = 1111100110100101011111
N = 111010111100001001010111
O = 1111010110011001011111

```

```

P = 110111010100010110011111
Q = 111110011000101001011111
R = 1101111000110001001011111
S = 111011010001011000101111
T = 11011110001010001001101111
U = 11011101010000100101100111
V = 1111100001000110010101111
W = 110111100010010001001101111
X = 1110111010101010011111
Y = 11110010111011101111
Z = 111011100000010010010111
a = 111011011101010101111

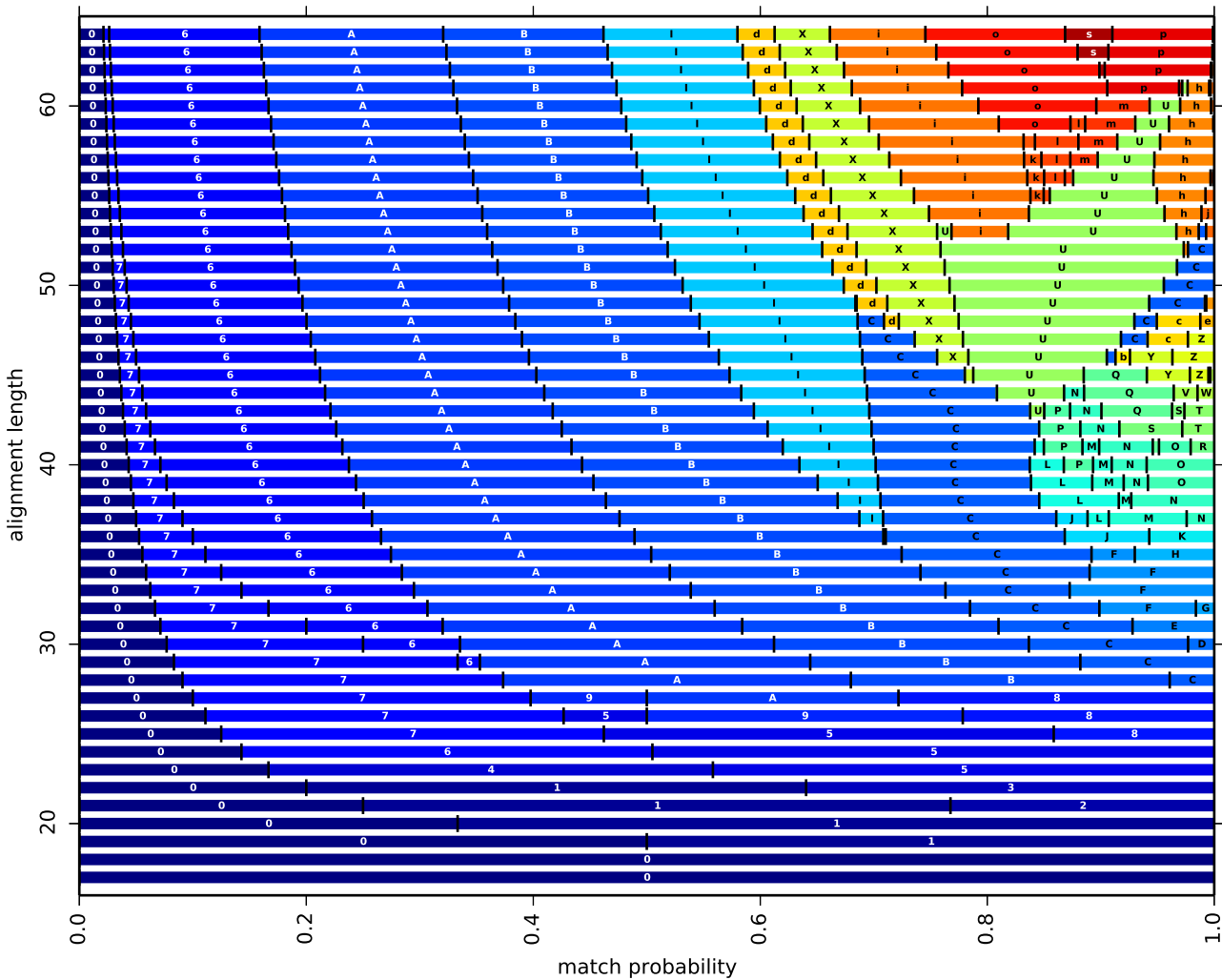
```

```

b = 111010111101001101111
c = 1101111100001000010000101111
d = 110111110000000010001011111
e = 1101011110000000010010101111
f = 11101110010111101111
g = 11010111110001101111
h = 1111010011101001101111
i = 111100101010110010101111
j = 1110100111010011101111
k = 111110110111011111
l = 111100101100110010101111
m = 11011110001000100110101111

```

Bernoulli (n:1,w:16)



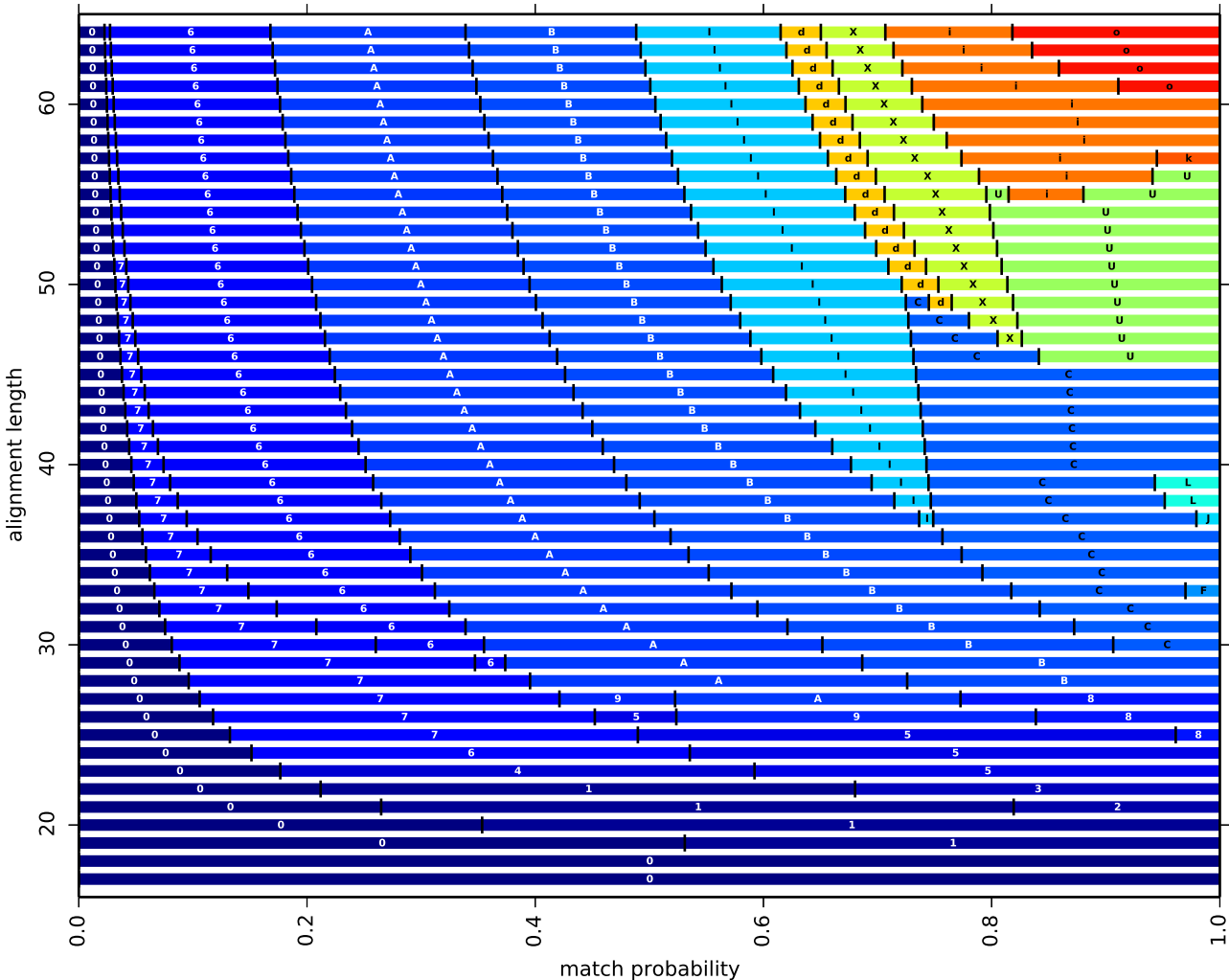
0 = 1111101111111111
 1 = 1111101111111111
 2 = 1110111011111111
 3 = 1111011110111111
 4 = 1111110111111111
 5 = 1111101111101111
 6 = 1111110111111111
 7 = 1111111011111111
 8 = 1111011101110111
 9 = 1111110111101111
 A = 1111011110111111
 B = 1111011110110111
 C = 1111101011011111

D = 11110101011100110111
 E = 11101111010011011111
 F = 11101111100011101111
 G = 10111001011100101110010111
 H = 1110111101001011101111
 I = 11110110111011101111
 J = 11111010111001011111
 K = 11110111001001011101111
 L = 1111100110101101011111
 M = 11110111001011001011111
 N = 111011101010010110011111
 O = 110101111000100110101111

P = 1111101111001100101111
 Q = 111110011001010010101111
 R = 1101011110000100110101111
 S = 11011110001010100101111
 T = 110110101110000011011010111
 U = 1110110011101011011111
 V = 1110111000010110010110111
 W = 110110101110000011011010111
 X = 11101101001110101111
 Y = 1111100011001010010101111
 Z = 110101111000100010011010111
 a = 1111100110001010100101111

c = 11111000101001010011001111
 d = 1110111011011010111111
 e = 1110111000010100100101110111
 h = 111011011101001111010111
 i = 1111011001101010110111
 j = 11011110100111011111
 k = 11110101011001101010111
 l = 1110111011001011010111
 m = 1101110101101011001111
 o = 111100110101011001010111
 p = 1111001010100101110111
 s = 111101001101010011101111

\int_0^x Hit Integration (n:1,w:16)



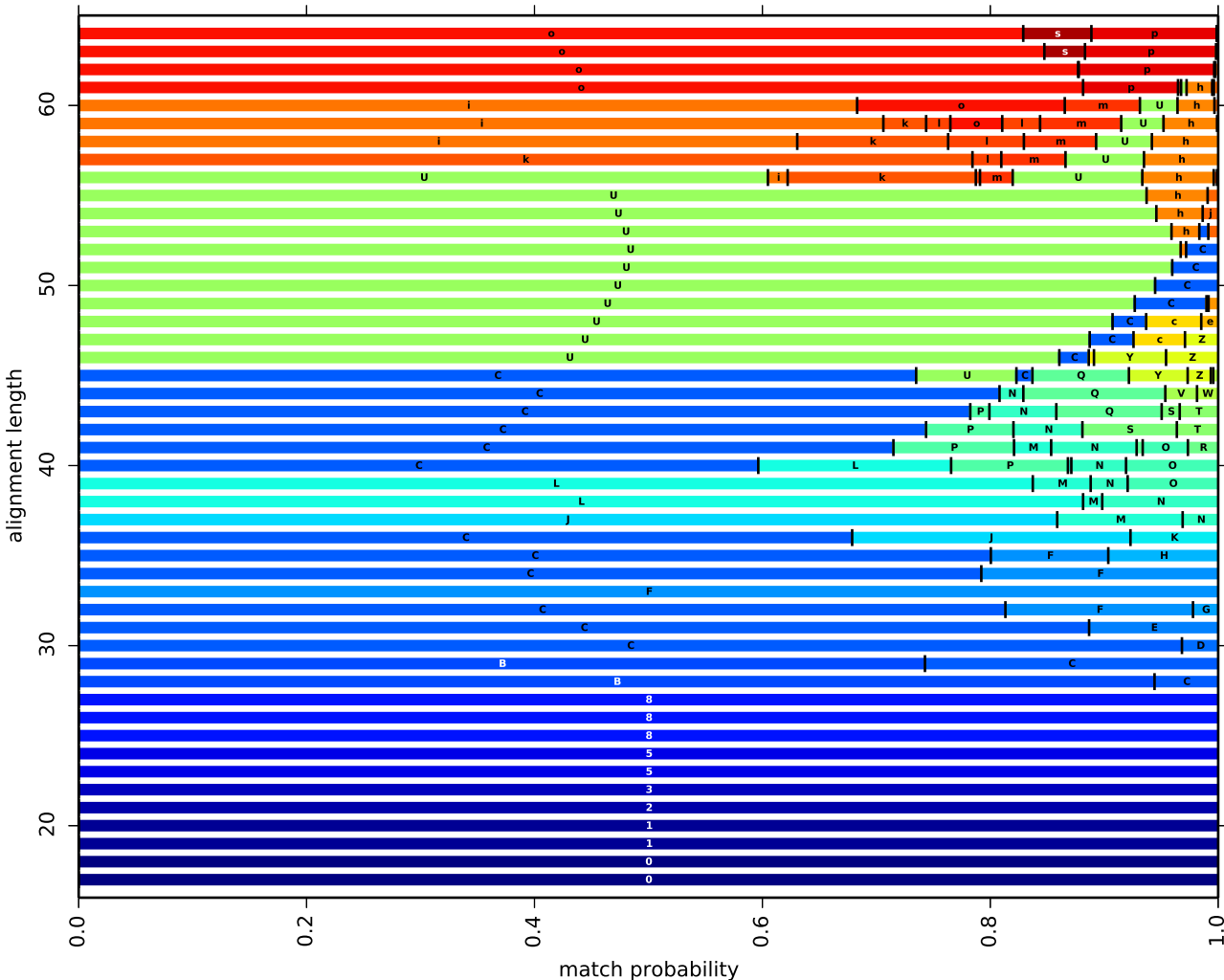
0 = 1111111111111111
 1 = 1111011111111111
 2 = 1101101111111111
 3 = 1111011110111111
 4 = 1111101111111111
 5 = 1111011110111111

6 = 1111110111111111
 7 = 1111111011111111
 8 = 1111011011111111
 9 = 1111101111011111
 A = 1111101111011111
 B = 1111011110110111

C = 1111110110111011
 F = 111011111010011011
 I = 111101101110111011
 J = 111110101110011011
 L = 111110011010110111
 U = 111011001110101111

X = 11101110100111011011
 d = 11101110110110101111
 i = 11110110011010101111
 k = 1111010101100110101111
 o = 111100110101011001101111

\int_x^1 Hit Integration (n:1,w:16)



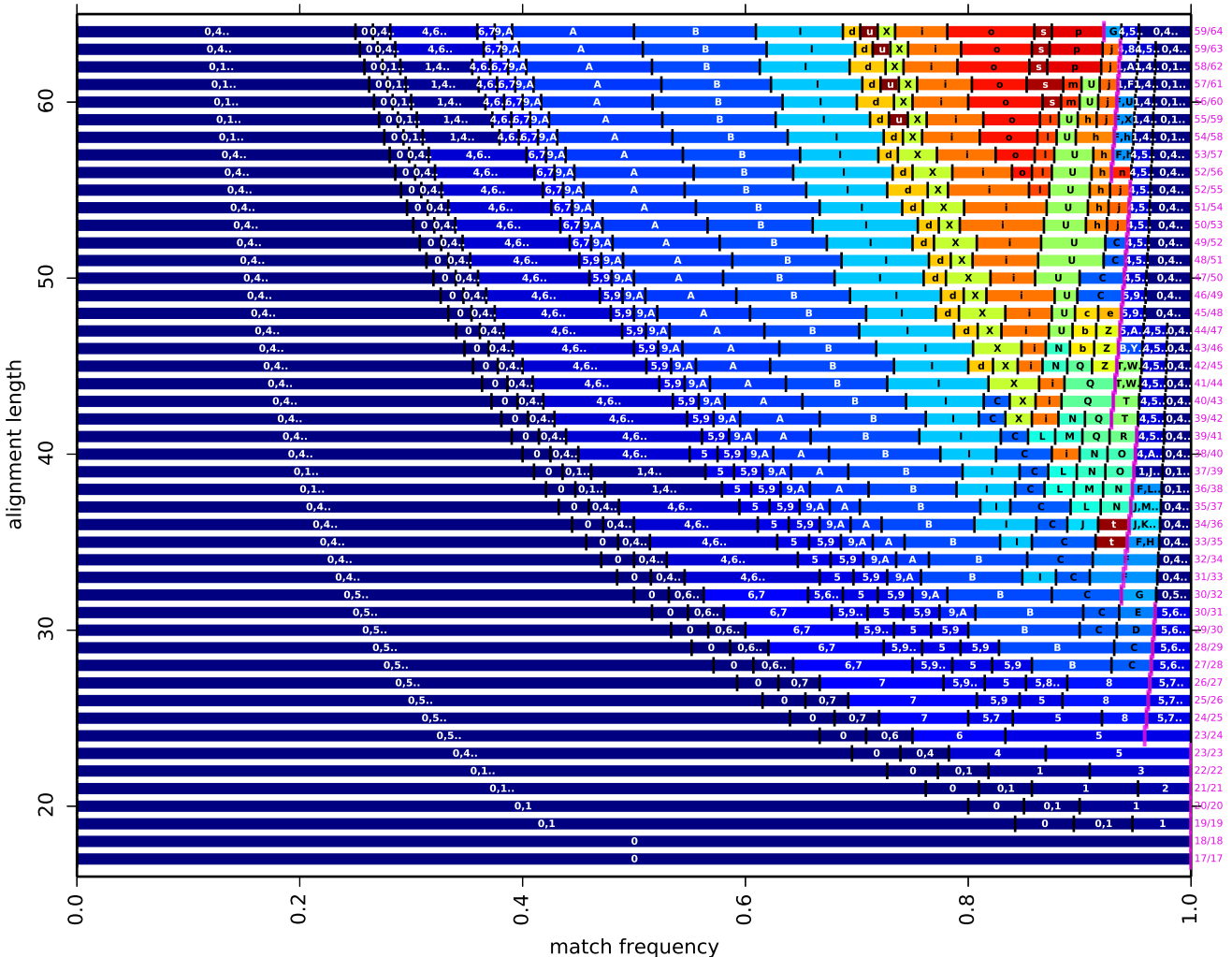
0 = 1111111111111111
 1 = 1111011111111111
 2 = 1110111101111111
 3 = 1110111101111111
 5 = 1111011110111111
 8 = 1111011011110111
 B = 1111011101110111
 C = 111110101101110111
 D = 11110101011100110111
 E = 11101111010011011111

F = 11101111101001110111
 G = 10111001011100101110010111
 H = 1110111101001011101111
 J = 11111010111001101111
 K = 1111011100100101110111
 L = 11110011010110101111
 M = 1111011100101100101111
 N = 111011101010010110011111
 O = 110101111000100110101111
 P = 1111010111001100101111

Q = 111110011001010010101111
 R = 1101011110000100110101111
 S = 110111100011010100110111
 T = 11011010111000001101101011
 U = 111011001110101101111
 V = 1110111000010110010110111
 W = 110110101110000001101101011
 Y = 1111100011001010010101111
 Z = 110101111000100010011010111
 c = 11111000101001010011001111

e = 1110111000010100100101110111
 h = 1110110111010011110111
 i = 1111011001101010110111
 j = 11011111010011101111
 k = 11110101011001101010111
 l = 1110111011001011010111
 m = 1101110101101010011111
 o = 1111001101010100110111
 p = 11110010101100101110111
 s = 111101001101010011101111

Dirac (n:1,w:16)



```

0 = 1111111111111111
1 = 1111101111111111
2 = 1101111101111111
3 = 1111011110111111
4 = 1111101111111111
5 = 1111101111011111
6 = 1111111011111111
7 = 1111111011111111
8 = 111101101111011111
9 = 1111101111011111
A = 1111101111011111
B = 111101110110111111
C = 111110101110111111
D = 1111010101110011011111
E = 11101111010011011111

```

```

F = 11101111101001101111
G = 10111001011100101110010111
H = 1110111101001011011111
I = 11110101011011011111
J = 11111010111001101111
K = 1111011100100101101111
L = 11111001101010101111
M = 1111111001010010101111
N = 1110111010100101001111
O = 110101111000100110101111
P = 1111010111001100101111
Q = 111110011001010010101111
R = 110111110000100110101111
S = 1101111000110101001101111

```

```

T = 110110101110000011011010111
U = 1110111001110101011111
V = 11101110000101100101110111
W = 110110101110000001101010111
X = 1110111010011101101111
Y = 1111100011001010010101111
Z = 1101011110001000100110101111
a = 11011111000100100100111111
b = 1111101100010101001011111
c = 111110001010010100110011111
d = 1110111011011010101111
e = 1110111000010100100101110111
f = 1101111011101101011111
g = 1111100100101010000110011111

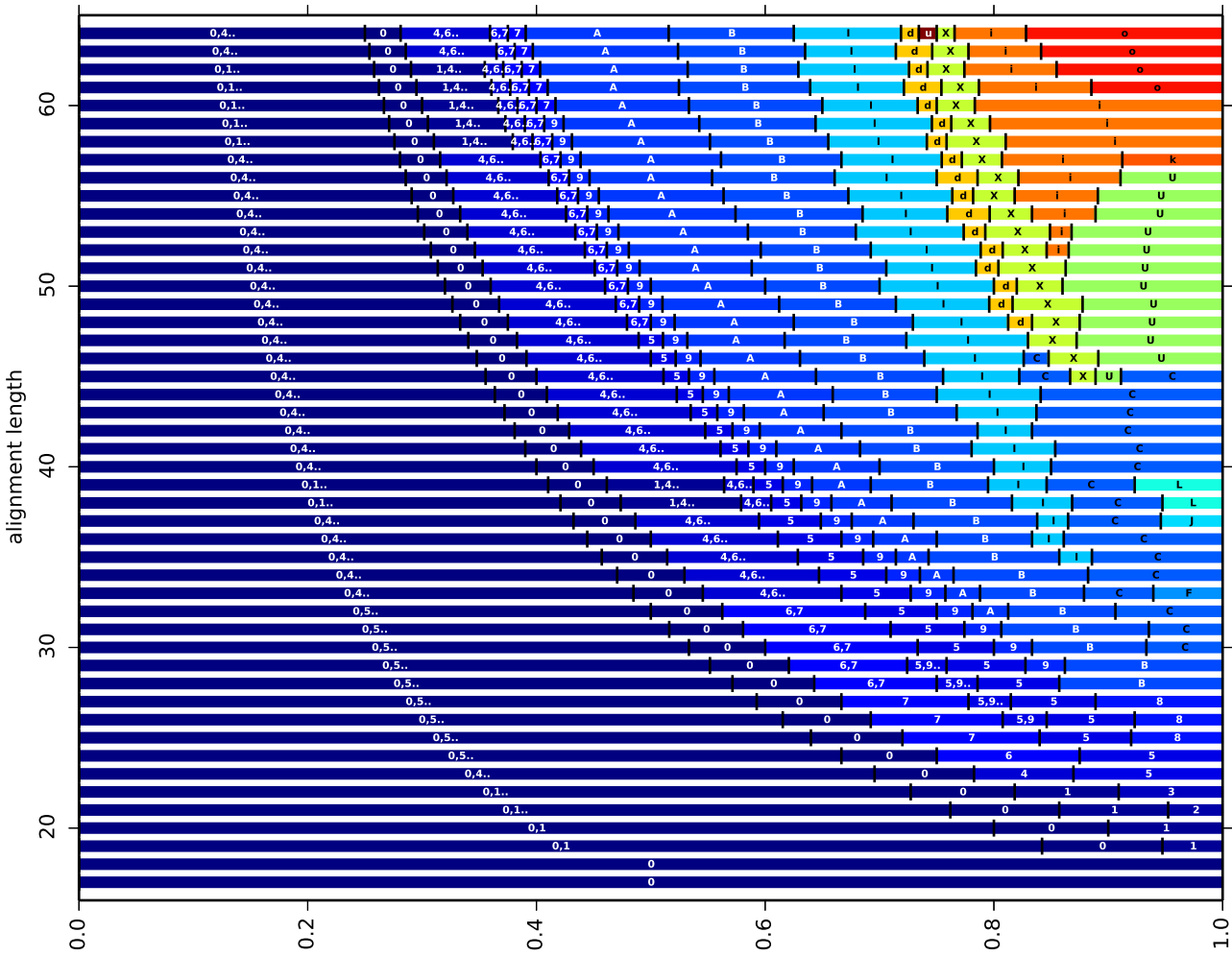
```

```

h = 11101101110100111101111
i = 111101100110101010101111
j = 11011111010011011111
k = 111101010110001010101111
l = 1110111011000101010101111
m = 11011101010101010011111
n = 101110111100101101111
o = 1111000101010010010101111
p = 1111001010100101010101111
q = 1110111011000101010101111
r = 111010011101101001101111
s = 1111010001101001010101111
t = 11110110010011010101111
u = 11110101110011010101111

```

$$\sum_0^x \text{Heaviside}(n:1,w:16)$$



```

0 = 1111111111111111
1 = 1111101111111111
2 = 1110111101111111
3 = 1111011110111111
4 = 1111110111111111
5 = 1111101111011111
6 = 1111111011111111
7 = 1111111101111111
8 = 111101110111101111
9 = 11111101111011111
A = 11111011110111111
B = 111101111011101111
C = 111110101111011111
D = 111101010111001101111
E = 11101111010011011111

```

```

F = 111011111010011101111
G = 10111001011100101110010111
H = 1110111101001011101111
J = 1111010111011011111
K = 11110111001001011101111
L = 1111100110101101011111
M = 11110111001011001011111
N = 111011101010010110011111
O = 1101011110001001101011111
P = 11110101110011001011111
Q = 1111100110010100101011111
R = 1101011110000100110101111
S = 1101111000110101001101111

```

```

T = 110110101110000011011010111
U = 11101100111010110111111
V = 11101110000101100101110111
W = 11011010111100000011011010111
X = 11101110100111011011111
Y = 11111000110010100101011111
Z = 11010111100010001001101011111
a = 11011111000100101001100111111
b = 111110011000101010011011111
c = 1111100010100101001100111111
d = 11101110110110101111111
e = 11101110000101001001101101111
f = 11011110101110110111111
g = 11111001001010100001100111111

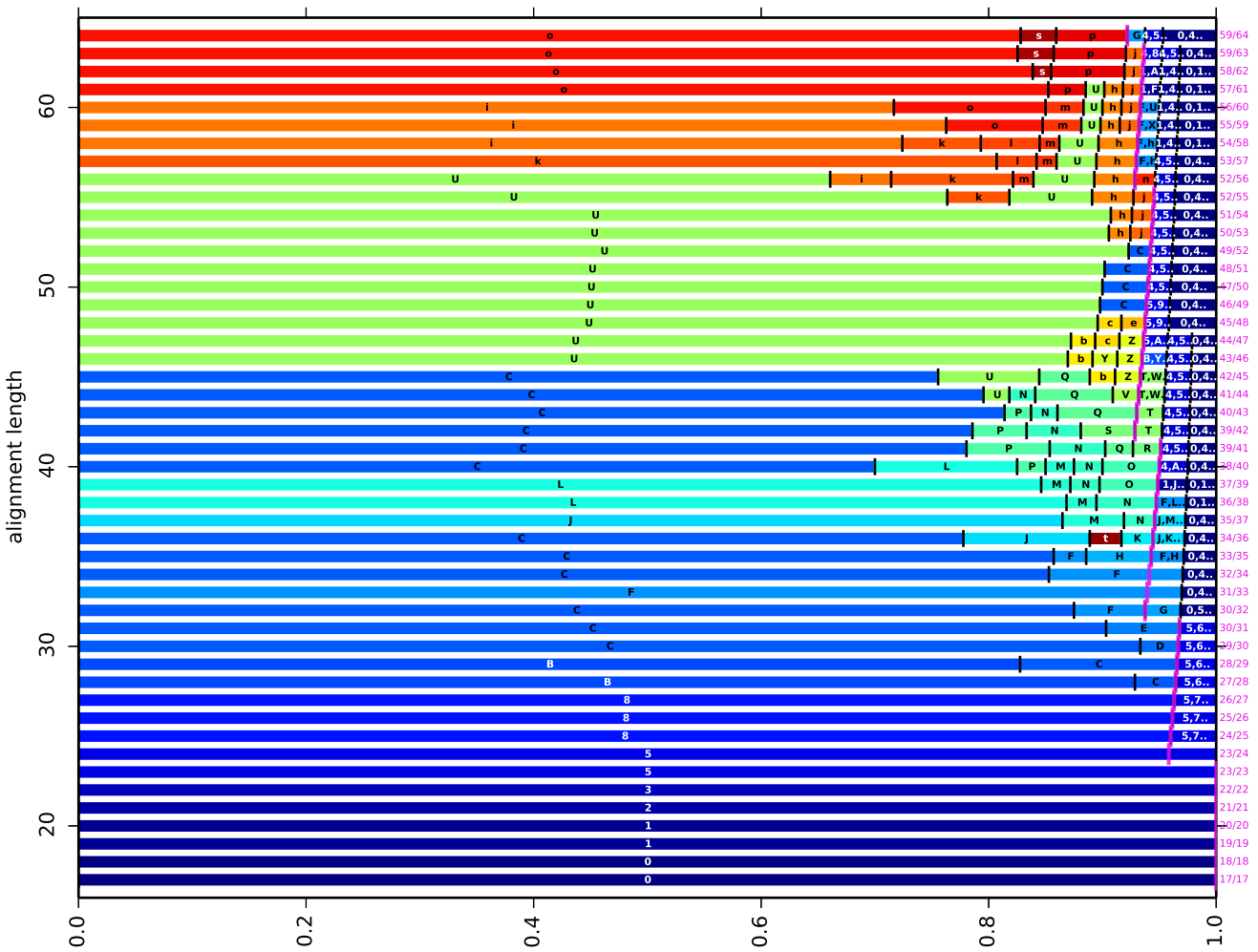
```

```

h = 11101101110100111101111
i = 111101100110101010110111111
j = 11011111010011101111111
k = 1111010101100011011011111
l = 1110111011001011010111111
m = 1101110101010101100111111
n = 1011101111001011101111111
o = 1111001101010100110111111
p = 1111001010100110111011111
q = 1110110101100101110111111
r = 1110100111011010011011111
s = 1111010011101001101111111
t = 1111011100100110101111111
u = 11110101110011010111111

```

$$\sum_x \text{Heaviside}(n:1,w:16)$$



```

0 = 1111111111111111
1 = 1111101111111111
2 = 1110111101111111
3 = 1111011110111111
4 = 1111110111111111
5 = 1111101111011111
6 = 1111111011111111
7 = 1111111101111111
8 = 1111011101111111
9 = 1111110111101111
A = 1111101111011111
B = 1111011101110111
C = 1111101011110111
D = 1111010101110011
E = 1110111101001101

```

```

F = 11101111101001101111
G = 1011100101110010110010111
H = 1110111101001011011111
I = 11110110111011101111
J = 111110101110011011111
K = 111101110010010111011111
L = 1111100110101101011111
M = 111101110010110010111111
N = 111011101010010110011111
O = 11010111100010011010111111
P = 111101011100110010111111
Q = 1111100110010100101110111111
R = 1101011110000100011010111111
S = 1101111000110101001101111111

```

```

T = 1101101011100000110110101111
U = 110110011101011011111111
V = 1110111000010110010111011111
W = 110110101111000000110110101111
X = 111011101001110110111111
Y = 11111000110010100101011111
Z = 110101111000100010011010111111
a = 110111110001001010011001111111
b = 1111100110001010100101111111
c = 111110001010010100110011111111
d = 1110111011011011011111111111
e = 111011100001010010010111101111
f = 1101111010111011011111111111
g = 111110010010101000011001111111

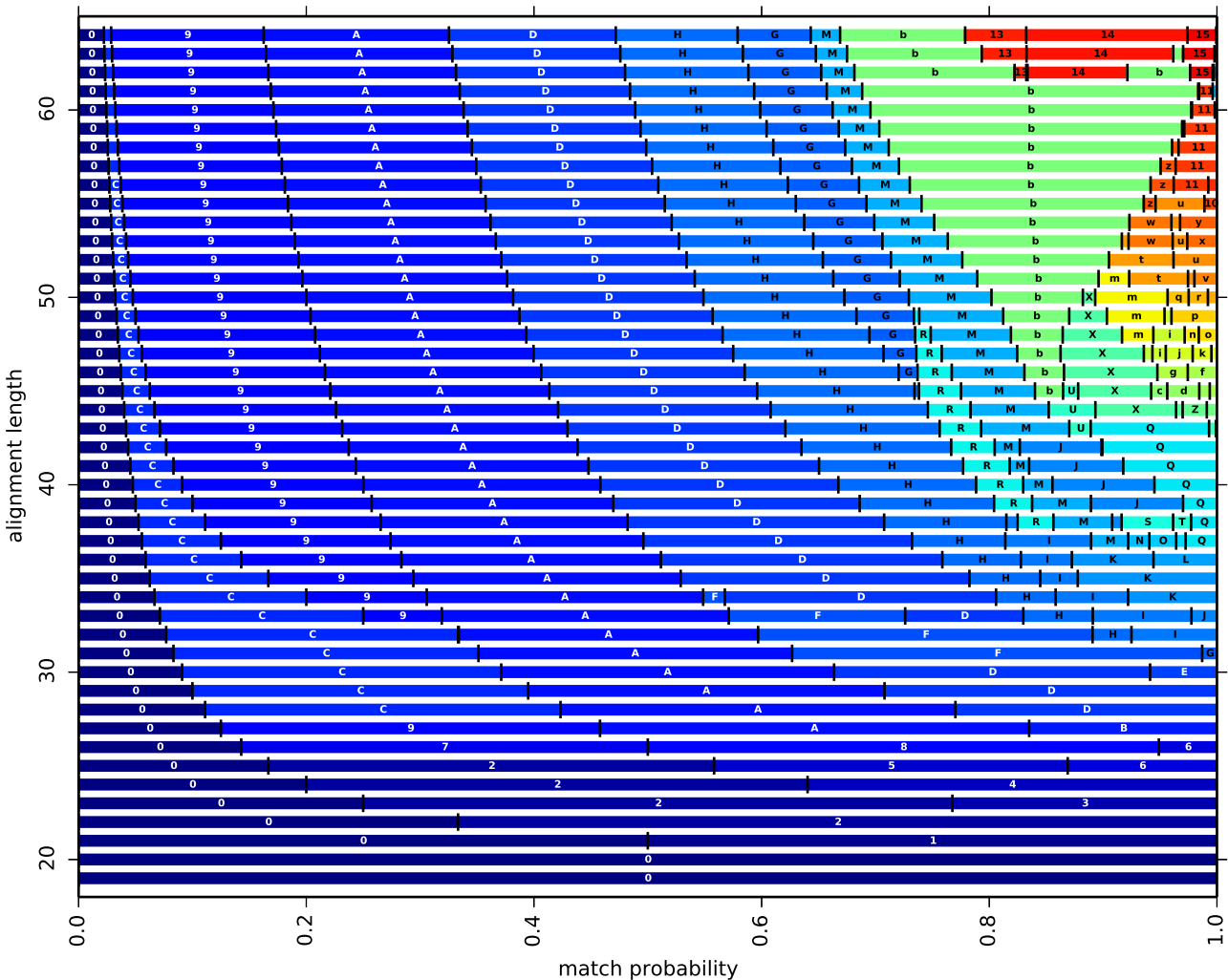
```

```

h = 111011011110100111101111
i = 11110110011010101010111111
j = 11011111010001110111111111
k = 11110101011000101101111111
l = 11101110110010110101011111
m = 11011101010101011001111111
n = 10111011110010111011111111
o = 1111001101010101001101111111
p = 1111001010110010111011111111
q = 1110110101100101110111111111
r = 1110100111011010011011111111
s = 1111010011010100111011111111
t = 1111011100100110101011111111
u = 1111010111001101101111111111

```

Bernoulli (n:1,w:18)



```

0 = 111111111111111111
1 = 110111111111111111
2 = 111111011111111111
3 = 111011111011111111
4 = 111101111011111111
5 = 111111011110111111
6 = 1111011110111101111
7 = 111111011111111111
8 = 111110111111011111
9 = 111111101111111111
A = 111110111111011111
B = 1111101111011101111
C = 111111110111111111
D = 111101110111101111
E = 111101110111101111
F = 1111101111011101111
G = 1111011101110110111
H = 111101110111011111
I = 111111011011101111
J = 1111101100111010111
j = 1111101100111010111

```

```

K = 111011111010011101111
L = 110101111110011010111
M = 111101110111001010111
N = 111101101110100111011
O = 111011110100101110111
Q = 111110011010011010111
R = 1111101101011011111
S = 111101100110111101111
T = 111110111001010111011
U = 111110101101011001111
X = 111110100110101001111
Z = 111101011011001000111
b = 111101100111010101111
c = 110111110001101010011
d = 11011111000110010101111
f = 111011011110000001111
g = 111011010010010100111
i = 111110101001011000111
j = 111011110001011001011

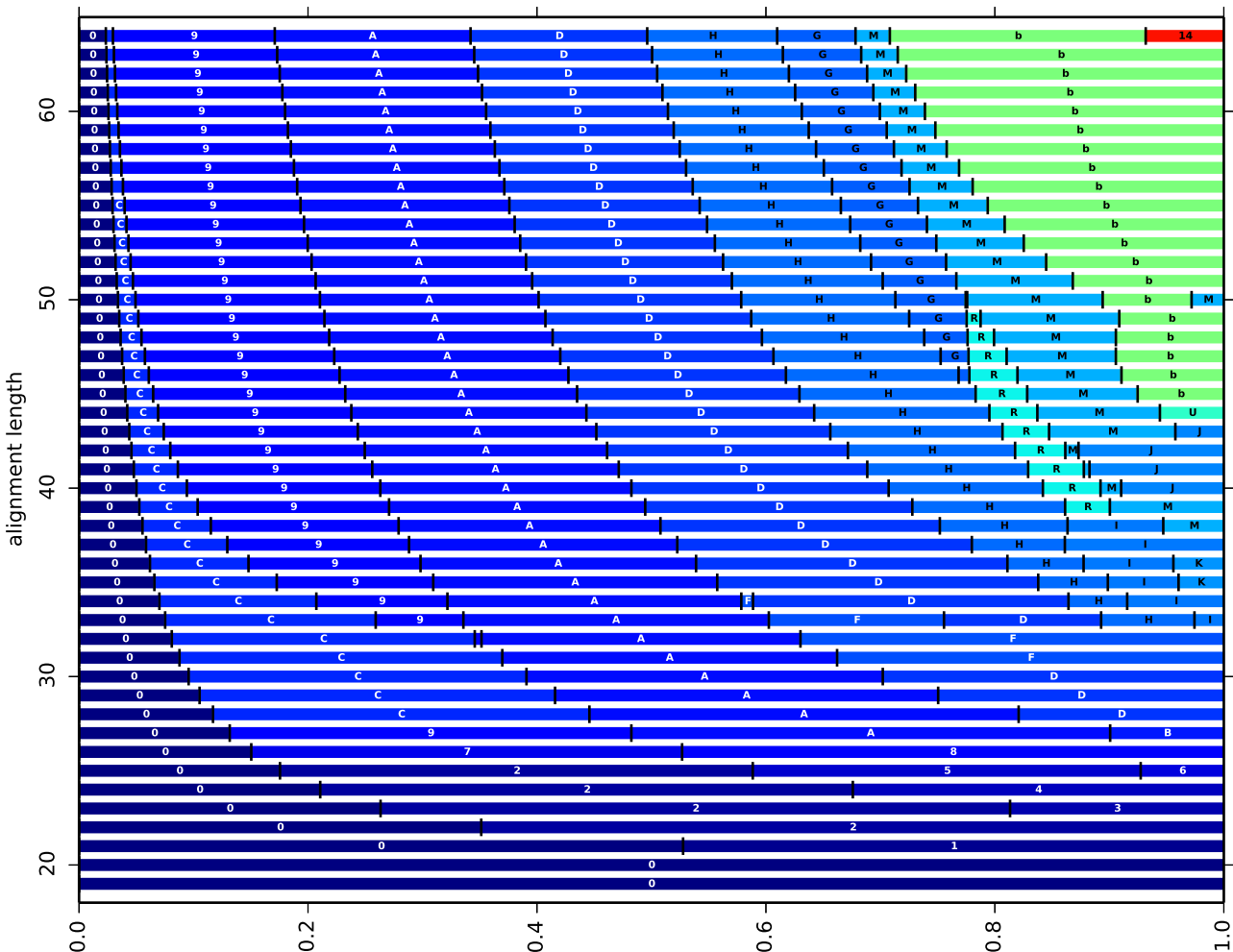
```

```

k = 11101111010010011000111
m = 111110100110011000111
n = 111101101001101000111
o = 111011011110000000111
p = 11101111010011010000011
q = 11111010101001001100111
r = 11110110001011001000111
t = 11111001100011010101011
u = 111110011010010001100111
v = 11111001010001010011111
w = 11111001010100110001111
x = 11101111000100110001111
y = 11010111100010011000111
z = 111101101011011001111
10 = 11011101110000000110011
11 = 11101101111101001110111
13 = 11111001100110101101111
14 = 1110111101001110101111
15 = 11110100111011101001111

```

\int_0^x Hit Integration (n:1,w:18)



```

0 = 111111111111111111
1 = 110111111111111111
2 = 111110111111111111
3 = 111011111101111111
4 = 111101110111111111
5 = 111101111101111111
6 = 111101111110111111
7 = 111101111111011111
8 = 111110111111011111

```

```

9 = 111111101111111111
A = 111110111110111111
B = 111101111011110111
C = 111111110111111111
D = 111101110111101111
E = 111101110111011111
F = 111101110111011111
G = 111101110111010111
H = 111101110110111111

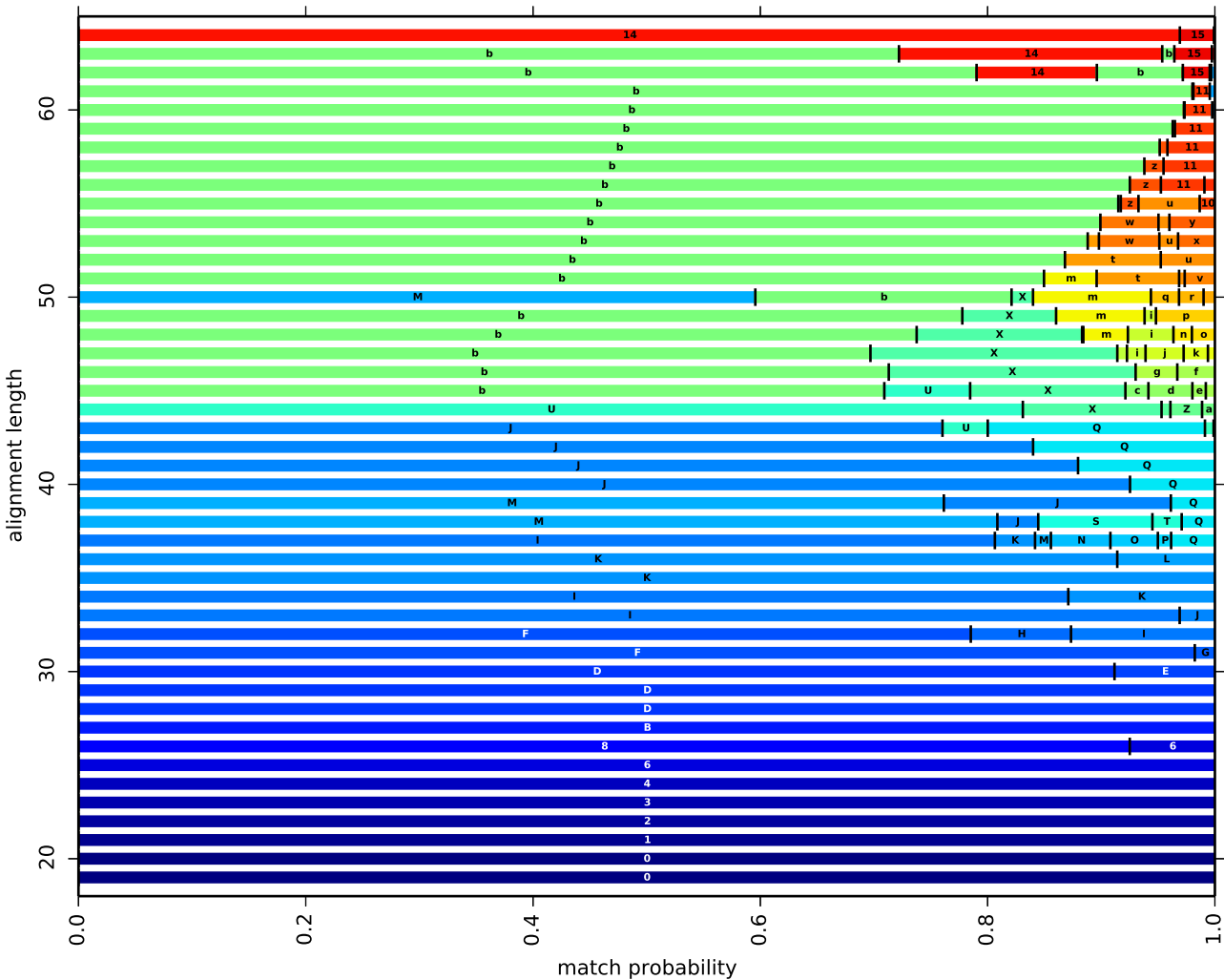
```

```

I = 111110110101101111
J = 11111011001110101111
K = 11101111101001110111
L = 11110111011100101111
M = 11110110101011011111
N = 11110110101011011111
O = 1111010110101001011111
P = 11110110111010101111
Q = 11110110111010101111
R = 11110110111010101111
S = 11110110111010101111
T = 11110110111010101111
U = 111101011010101001011111
V = 1111011011101010101111
W = 1111011011101010101111
X = 1111011011101010101111
Y = 1111011011101010101111
Z = 1111011011101010101111

```

\int_x^1 Hit Integration (n:1,w:18)



```

0 = 111111111111111111
1 = 110111111111111111
2 = 111110111111111111
3 = 111011111011111111
4 = 111101111011111111
6 = 1111011110111101111
8 = 111110111110111111
B = 11111011110111101111
D = 11111011101111011111
E = 11110111011111011111
F = 11111011110111011111
G = 111101110111011011111
H = 1111011101101111011111
I = 1111110110101111011111
J = 1111101100111010111111
K = 1110111110100111011111
L = 110101111110011010111111
M = 111101110111001011011111

```

```

N = 11110110111101001110111111
O = 111011110100101110111111
P = 11111010011101001110111111
Q = 111110011010011010111111
S = 11110111010011011111011111
T = 111110111001010111011111
U = 11111010110101100110111111
X = 11111010011010100111011111
Z = 1111010110110010001110101111
a = 1101110101100001011011101111
b = 11110110011101010110111111
c = 1101111100011010100110111111
d = 1101111100011001010110111111
e = 1110101111001001001110101111
f = 11101101111000000011101101111
g = 1110111010010010100111011111
i = 1111101010100101100011011111
j = 1110111100001011001011101111

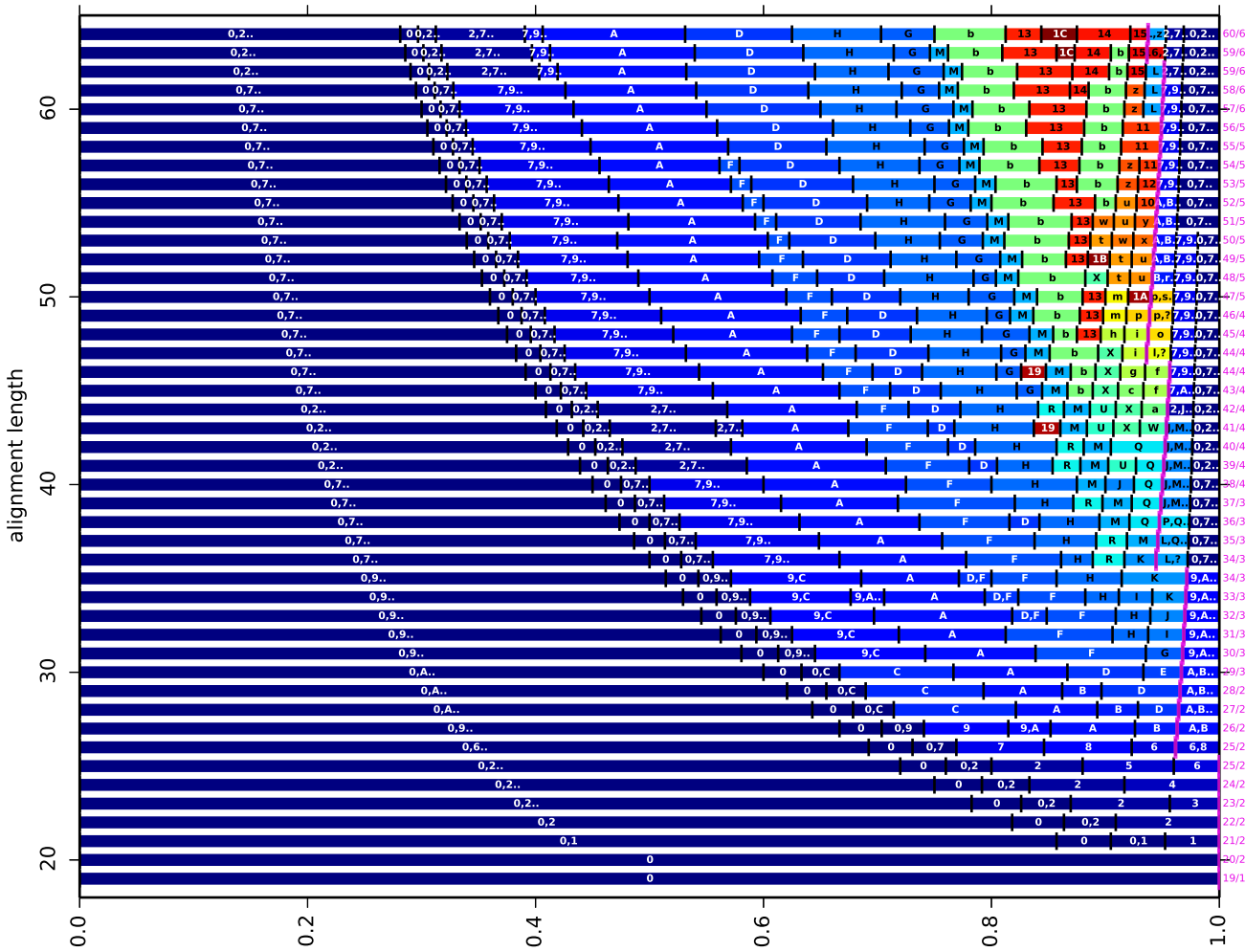
```

```

k = 1110111101001001100011101111
m = 1111101001100110001101011111
n = 111101101001101000100111011111
o = 111011011110000000111011011111
p = 111011110100110100000111011111
q = 111110101010010011000110111111
r = 1111010110001011001000111011111
t = 111110011000110100101101111111
u = 11111001101001000110001011111111
v = 11111100101000101001100111111111
w = 11111001010011000110011111111111
x = 11101111000100110001011010111111
y = 1101011110001001100010011010111111
z = 111101110101101110011111111111
10 = 11011011100000001101001011101111
11 = 111011011111010011101111111111
14 = 111011110100111010011011111111
15 = 111101001111011101001101111111

```

Dirac (n:1,w:18)

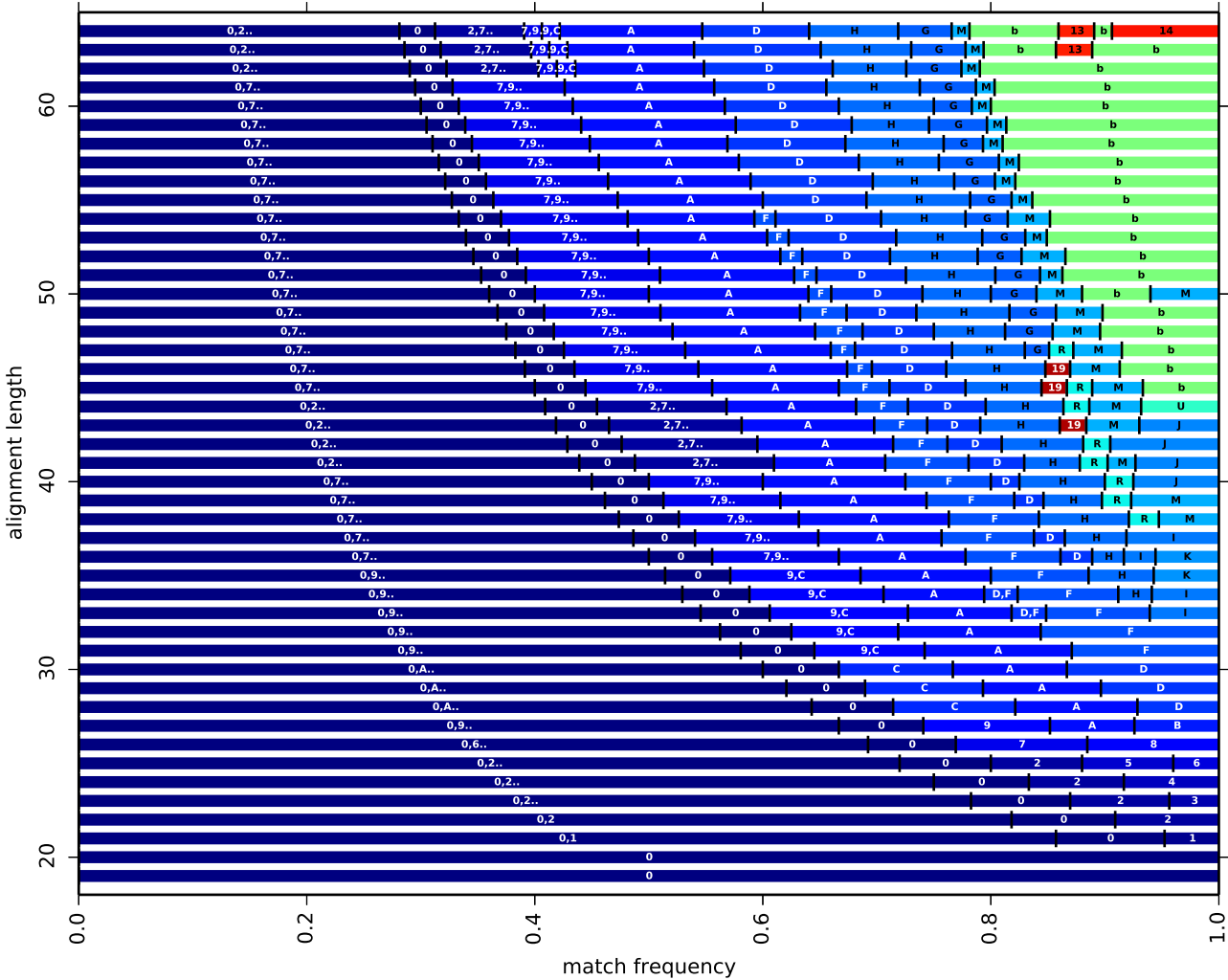


0 = 11111011111111111111
 1 = 11101111111111111111
 2 = 11111101111111111111
 3 = 11101111110111111111
 4 = 11110111101111111111
 5 = 11110111101111111111
 6 = 11101111110111110111
 7 = 11111110111111111111
 8 = 11111101111101111111
 9 = 11111110111111111111
 A = 11111011111011111111
 B = 11111011110111101111
 C = 11111110111011111111
 D = 11110110111011101111
 E = 11110111011110110111
 F = 11111011110111011111
 G = 11110111011101101111
 H = 11110111011011101111
 I = 11111011011011011111
 J = 11110110011101101111
 K = 11101111010011101111
 L = 11101111110011101111
 M = 1111011011100101101111
 N = 1111011011101001101111
 O = 1110111101001011011111

P = 111110100111010011101111
 Q = 1111110001101001111111
 R = 1111101101011011101111
 S = 111101110100110111101111
 T = 1111101110010111011111
 U = 111110101101011001101111
 V = 110101111100011001101111
 W = 11101110101100000101110111
 X = 111110100110101001101111
 Y = 1111011101001010001101111
 Z = 111101011011001000111010111
 a = 1101101011000010110110111
 b = 111101100111010110111111
 c = 1101111000110101001101111
 d = 110111100011001010111111
 e = 111010111100100100111010111
 f = 111011011110000001110110111
 g = 11101110100100101001101111
 h = 111110011010100101001101111
 i = 11110101010010110001101111
 j = 11101111000010110010110111
 k = 111011110100100110001101111
 l = 111010110010001010110010001111
 m = 111110100110011000110101111
 n = 1111011010011010001001101111

o = 111011011110000000011101101111
 p = 1110111101001101000001101111
 q = 1111101010100100110001101111
 r = 111101100001100100011101111
 s = 1110111110000100100110011111
 t = 1111100110001101001010101111
 u = 11111001101001000110001011111
 v = 11111100110100010100110011111
 w = 1111100101010011000110011111
 x = 1110111000100110001001101111
 y = 1101011110001001100010011010111
 z = 111101110101101110011111
 10 = 1110110111100000000110100110111
 11 = 1110110111101001101111
 12 = 11101110001011010001000110111
 13 = 1111100110011010110101111
 14 = 1110111101001110100110111
 15 = 111101001110111001100110111
 16 = 1110111100011011010110111
 17 = 11110111101101011110111
 18 = 111110011101001001101111
 19 = 111101110101101101111
 1A = 111111100001000110010101111
 1B = 111101110010101001101001111
 1C = 111101100101101011001111

$$\sum_0^x \text{Heaviside}(n:1,w:18)$$

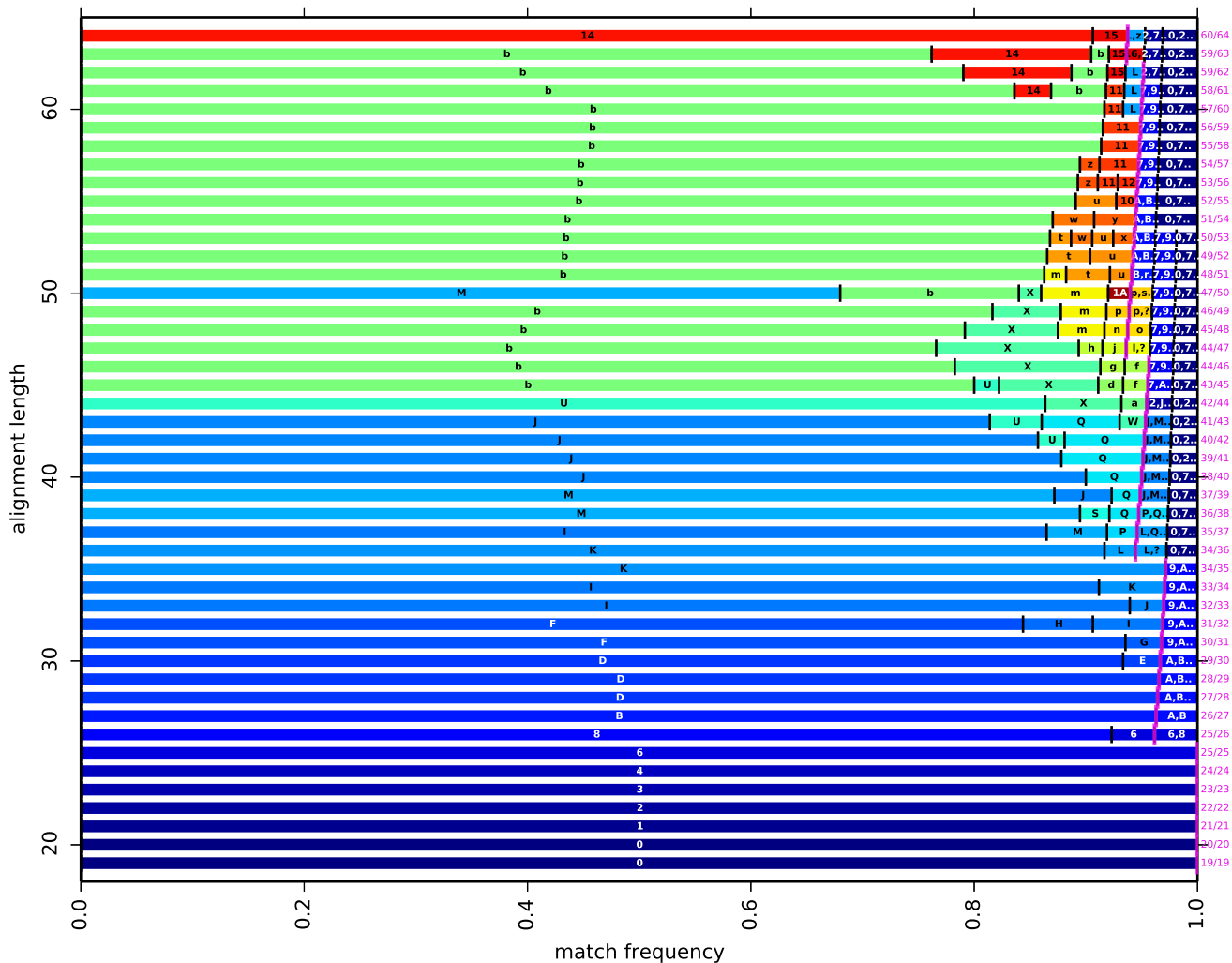


0 = 11111111111111111111
 1 = 11011111111111111111
 2 = 11111011111111111111
 3 = 11110111110111111111
 4 = 11110111011111111111
 5 = 11110111110111111111
 6 = 11110111110111101111
 7 = 11111101111111111111
 8 = 11111011111101111111
 9 = 11111110111111111111
 A = 11111011111011111111
 B = 11110111101111011111
 C = 11111111011111111111
 D = 11110111011110111111
 E = 11110110111101101111
 F = 11110111101110111111
 G = 11110111011101101111
 H = 11110111011011111111
 I = 11111011011011011111
 J = 11110110011101011111
 K = 1110111110100111011111
 L = 1101011111001101011111
 M = 111101110111001011011111
 N = 111101101110100111011111
 O = 1110111101001011011111

P = 111110100111010011101111
 Q = 111111000110100111011111
 R = 111110110101011011101111
 S = 111101110100110111101111
 T = 1111101110010111011111
 U = 111110101101011001101111
 V = 11010111110001100110101111
 W = 1110110101100001101101111
 X = 111110100110100111011111
 Y = 1110110100101001101111
 Z = 1111010110110010001110101111
 a = 11011010110000101101101111
 b = 111101100111010101101111
 c = 11011110001101010011011111
 d = 11011110001100101011011111
 e = 1110101111001001001110101111
 f = 111011011110000001110101111
 g = 1110111010010010100111011111
 h = 11110011010100100101011111
 i = 11110101010010100010111111
 j = 1110111100001011001011011111
 k = 11101111010010011000111011111
 l = 11101011001000101101010010001111
 m = 1111101001100110001101011111
 n = 1111011001101000100111011111

o = 11101101111000000011101101111
 p = 1110111101001101000001101111
 q = 11111010101001001100011011111
 r = 11110101100010110010001101111
 s = 1110111110000100100110011111
 t = 1111100110001010010101011111
 u = 11111001101001000110001011111
 v = 1111110010100010100110011111
 w = 111110010101001100011001011111
 x = 1110111100010011000100110101111
 y = 11010111100010011000100110101111
 z = 111011101011011011011111
 10 = 1101101110000000110100101101111
 11 = 111011011111010011101111
 12 = 1110111100010110100010001110111
 13 = 11111001100110101010101111
 14 = 11101111010011101001101111
 15 = 11110100111011101001101111
 16 = 11011111000110111010101111
 17 = 11101011110110010111101111
 18 = 111110011101001010011011111
 19 = 1111011101011011011111
 1A = 111011111000010001100101011111
 1B = 1111011100101010011010011111
 1C = 11110110010110101010011111

$$\sum_x^1 \text{Heaviside}(n;1,w;18)$$

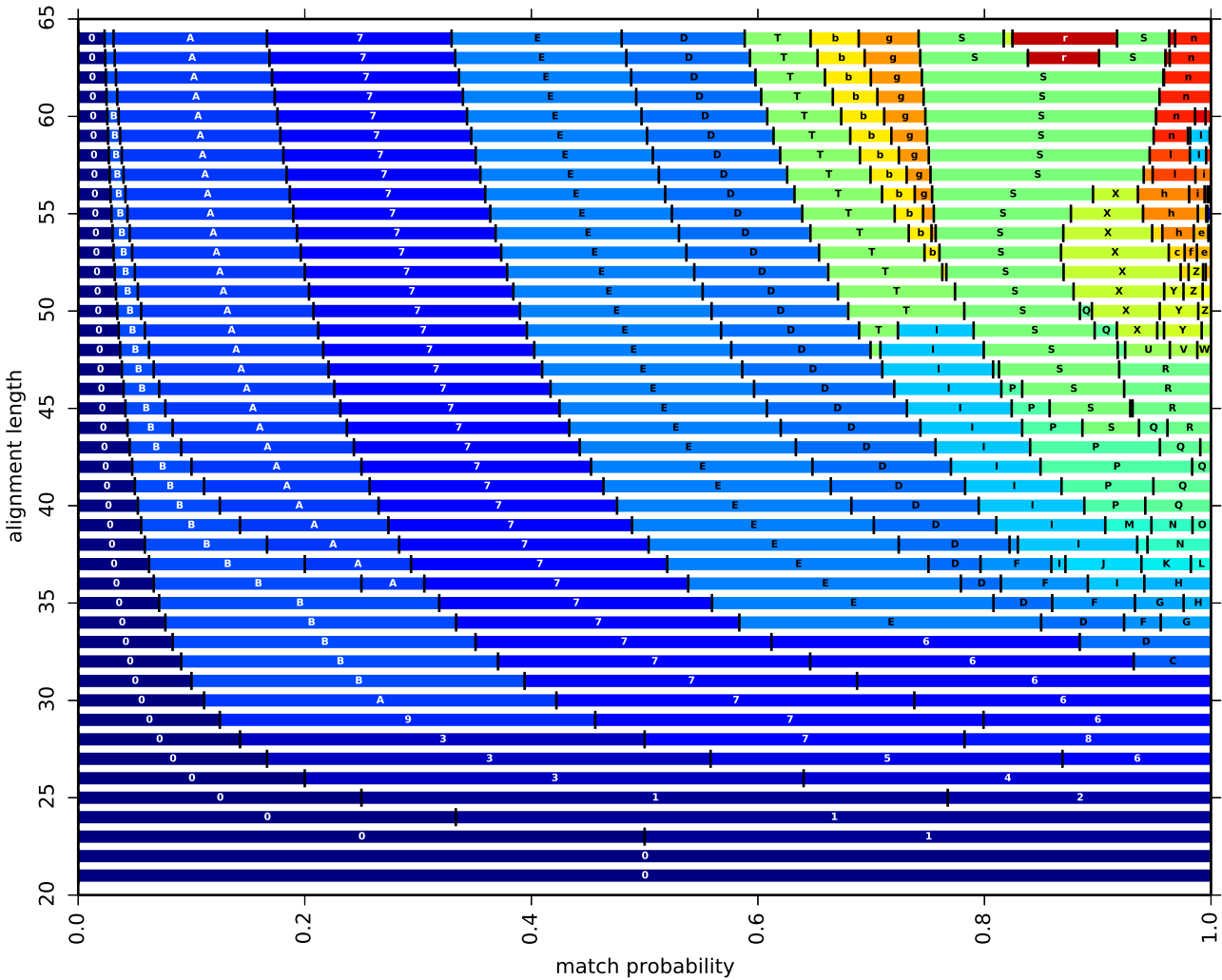


0 = 11111111111111111111
 1 = 11011111111111111111
 2 = 11111011111111111111
 3 = 11101111101111111111
 4 = 11110111011111111111
 5 = 11110111101111111111
 6 = 11101111011111011111
 7 = 11111101111111111111
 8 = 11111011111101111111
 9 = 11111110111111111111
 A = 11111011111011111111
 B = 11111101111011101111
 C = 11111101110111111111
 D = 11110110111101111111
 E = 11110111011110101111
 F = 11111011110111011111
 G = 11101110111101101111
 H = 11101110110111011111
 I = 11111011010110111111
 J = 11110110011101011011
 K = 11101111010011101111
 L = 11010111110011011111
 M = 11110110111001011111
 N = 1111011011101001101111
 O = 1110111101001011101111

P = 111110100111010011101111
 Q = 111110011010011010111111
 R = 1111101101011011101111
 S = 11101110100110111101111
 T = 1111011100101110111111
 U = 111101011010110010111111
 V = 110101111000110010101111
 W = 11101110101100000110110111
 X = 1111101001101010011101111
 Y = 111101110100101000101111
 Z = 111101011011001000111010111
 a = 1101101011000010110110111
 b = 111101100111101010111111
 c = 1101111000110101001011111
 d = 110111100011001010101111
 e = 111010111100100100111010111
 f = 11101101111000000111010111
 g = 11101110100100101001110111
 h = 11111001010100101001101111
 i = 11110101010100101000110111
 j = 11101111000010110010110111
 k = 111011110100100110001110111
 l = 1110101100100010110101001000111
 m = 11111010011001100010101111
 n = 1111011010011010001001110111

o = 1110110111100000001110101111
 p = 1110111010011010000011011111
 q = 1111101010100100110001101111
 r = 1110101100010110010001101111
 s = 1110111100001001010011001111
 t = 111100110001101001010101111
 u = 1111001010010001100010101111
 v = 1111100101000101001100111111
 w = 1111001010100110001100101111
 x = 11101110001001100010011010111
 y = 1101011110001001100010011010111
 z = 11101110101101110011111
 10 = 11011011110000000110010110111
 11 = 11101101111010011101111
 12 = 111011100010110100010011010111
 13 = 111100110011010110101111
 14 = 1110111010011101001101111
 15 = 11110100111011101001101111
 16 = 1101111000110111010110111
 17 = 111010111101100101110111
 18 = 11111001110100101001101111
 19 = 111101110101101101111
 1A = 1110111110001000110010101111
 1B = 1111011100101010011010011111
 1C = 11110110010110101010011111

Bernoulli (n:1,w:20)



```

0 = 11111011111111111111
1 = 11110111111111111111
2 = 11101111111111111111
3 = 11111101111111111111
4 = 11110111111011111111
5 = 11111011111101111111
6 = 1111101110111110111111
7 = 11111101111101111111
8 = 1111101111101111101111
9 = 11111110111111111111
A = 11111111011111111111
B = 11111111101111111111
C = 1111101110111101101111
D = 1111101110111101101111
E = 1111101111101111011111
F = 1111101111011101101111

```

```

G = 111110110101111011101111
H = 111101110101111011001111
I = 1111011101011011101111
J = 111110111011010111011111
K = 111101111101001110111111
L = 1111100110101110011011111
M = 1111011110110010111011111
N = 11111001101011100110101111
O = 1101111100011011110001101111
P = 1111101110111001010111111
Q = 111110101100111010110011111
R = 1101111101001110100111011111
S = 111110111010110101100111111
T = 111101110110111010111111
U = 11111001110110010101011011111

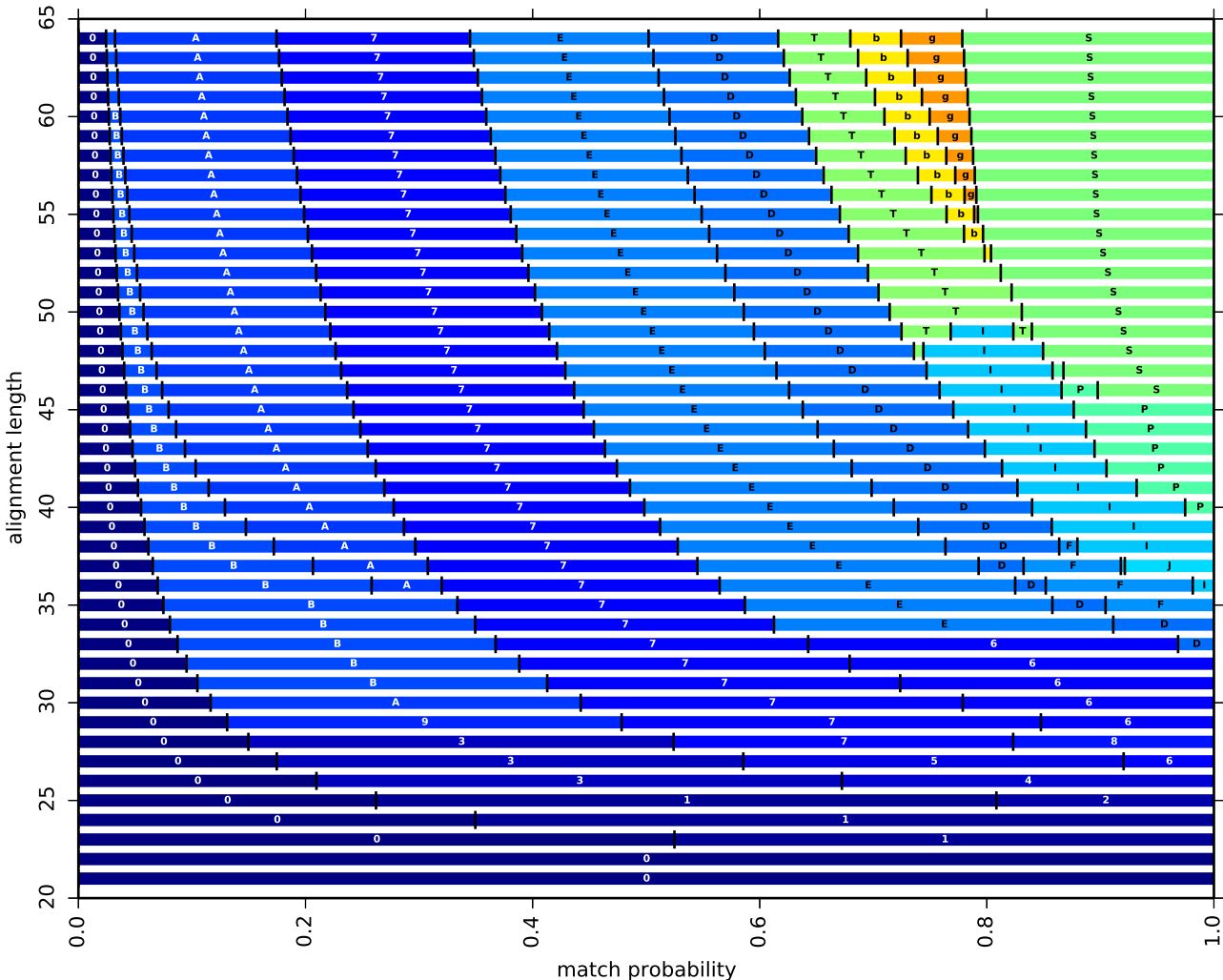
```

```

V = 111110110100111101000111011111
W = 111101101110010001010111011111
X = 1111101010110011001101111111
Y = 111110110100101011000111011111
Z = 11111010011100101000110101011111
a = 1111011011101110110110111111
c = 1110110101010100001101100111011111
e = 1110111011011000000101100011101111
f = 11111011010110001100001010111111
g = 1111011101100110101101111111
h = 1111100111000100101010011010111111
i = 110110011110010100101000101110111111
l = 1111101000100110000110011010111111
n = 1111011011111010011101111111
r = 111011011100101110010110111111

```

\int_0^x Hit Integration (n:1,w:20)



```

0 = 11111111111111111111
1 = 11110111111111111111
2 = 11101111111101111111
3 = 11111101111111111111
4 = 11110111111101111111
5 = 11110111111101111111
6 = 11110111101111101111
7 = 11111101111101111111

```

```

8 = 11111011111011110111
9 = 11111101111111111111
A = 11111111110111111111
B = 11111111110111111111
D = 11111011101111101111
E = 11111011111011110111
F = 11111011110111011111

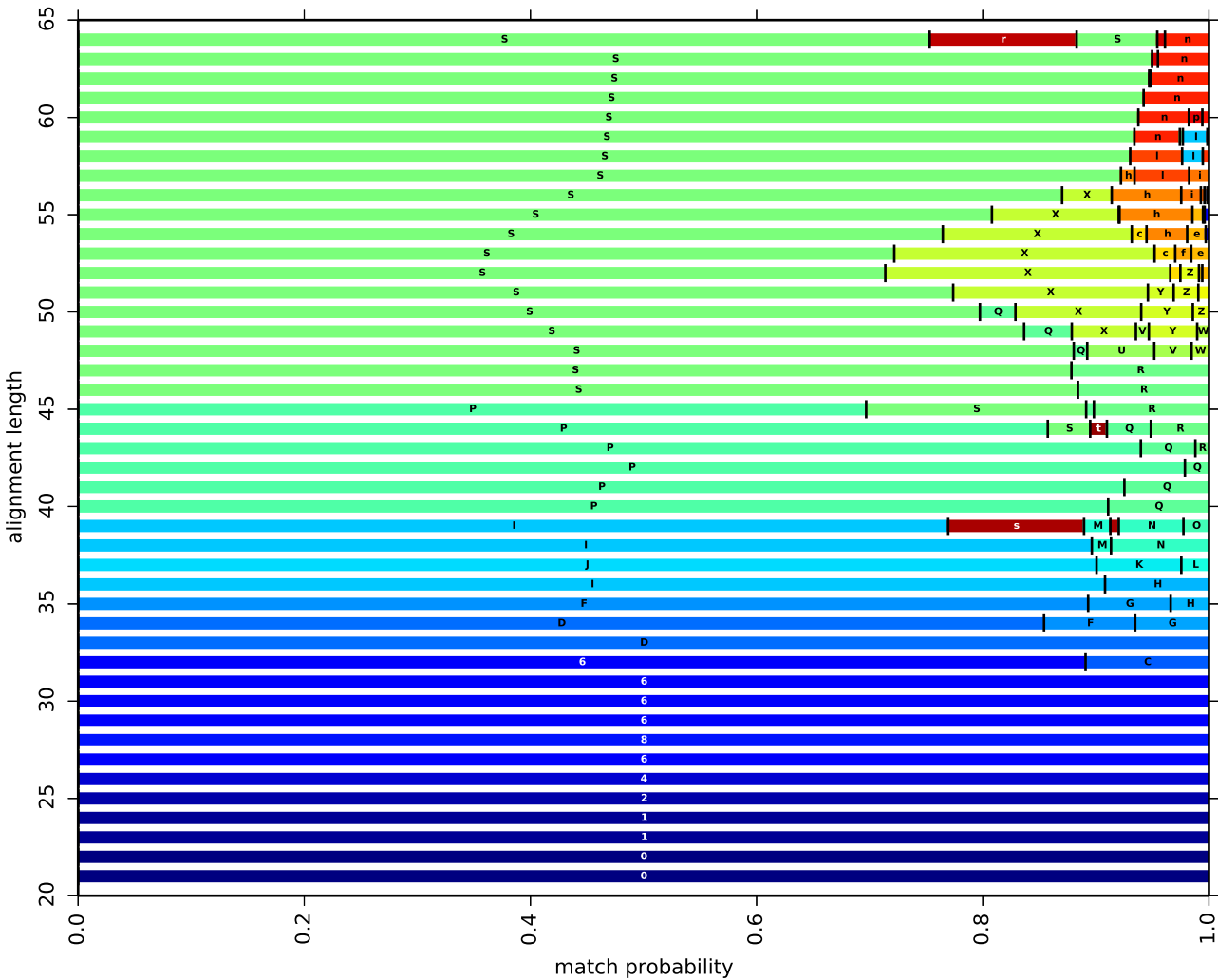
```

```

I = 1111101110101101110111
J = 1111101110110101110111
P = 111110111011100101101111
S = 11111011101011010110011111
T = 111101111011011101011111
b = 111101111011101101011111
g = 11110111011001110101101111

```

\int_x^1 Hit Integration (n:1,w:20)

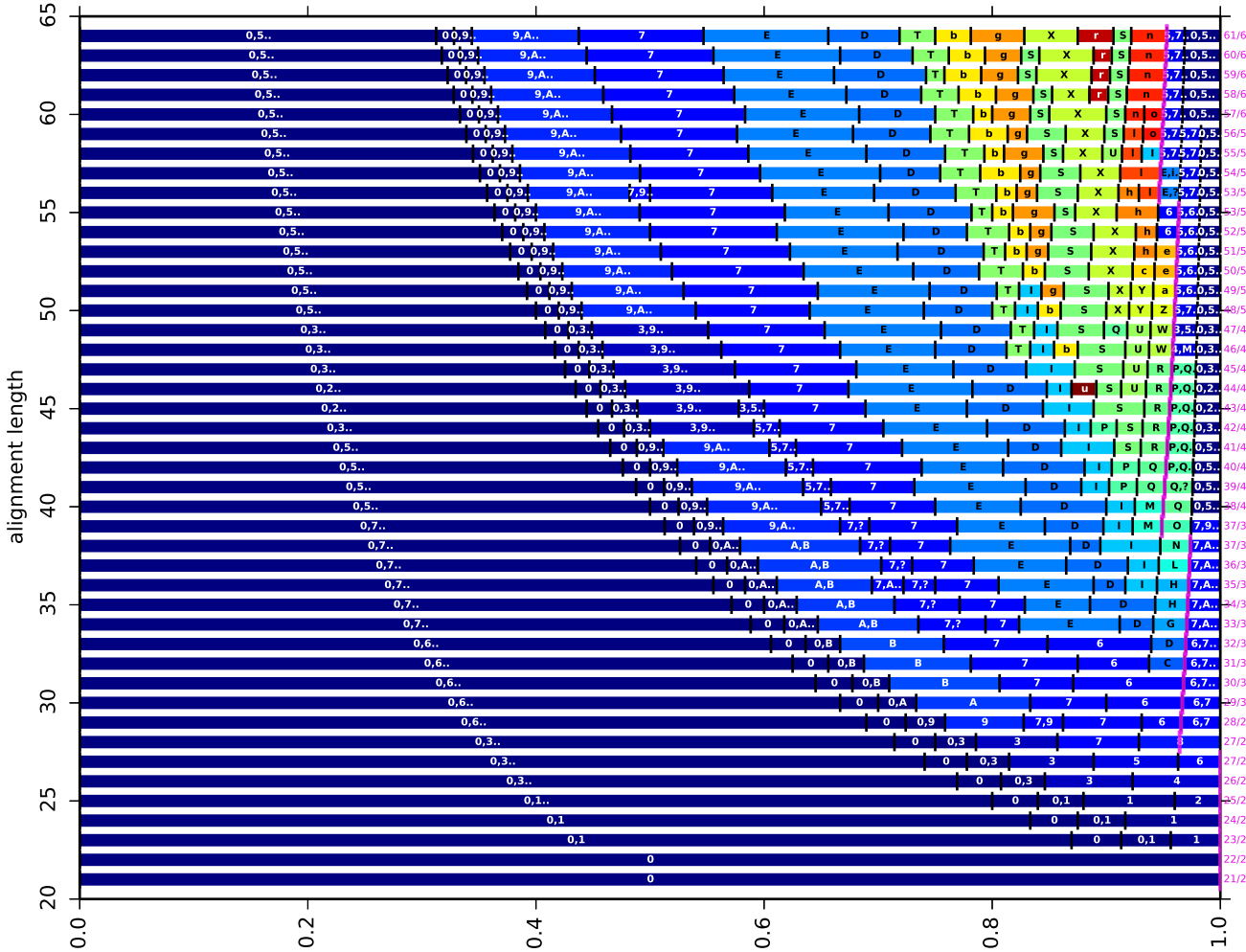


0 = 11111111111111111111
 1 = 11110111111111111111
 2 = 11101111111101111111
 4 = 11110111111101111111
 6 = 1111101111011110111111
 8 = 111110111110111110111111
 C = 111110111011110111011111
 D = 111110111011110110111111
 F = 111110111101110110111111
 G = 11111011010111101110111111
 H = 1111101110101111011001111111
 I = 1111101110101011110111111
 J = 1111101110101011101111111

K = 11110111110100111011111111
 L = 1111100110101111001101111111
 M = 1111011110110010111011111111
 N = 111110011010111100110101111111
 O = 110111110001101111100011011111
 P = 1111101110111001011011111111
 Q = 111110101100111010110011111111
 R = 110111110100111010011101111111
 S = 1111101110101101011001111111
 U = 111110011101100101010110111111
 V = 111110110100111010001110111111
 W = 11110101101100100010101111011111
 X = 111110101011010011100110111111

Y = 111110110100101011000111011111
 Z = 11111010011100101000110101011111
 c = 11110110101010000110110011101111
 e = 1110111011011000001011000111011111
 f = 11111011010110001100001010111111
 h = 1111100111000100101010011010111111
 i = 11011001111001010010100010111011111
 l = 1111101010010011000011001101011111
 m = 111110111110100111011111
 n = 11111011111101001110111111
 p = 11101110111110100111011111
 r = 111011101110010111001010111111
 s = 111101111100110111011111
 t = 1111011111001010111011011111

Dirac (n:1,w:20)



```

0 = 11111111111111111111
1 = 11110111111111111111
2 = 11011111111011111111
3 = 11111101111111111111
4 = 11110111111101111111
5 = 11111011111110111111
6 = 1111101111011111101111
7 = 11111101111110111111
8 = 1111101111011111101111
9 = 11111101111110111111
A = 11111111101111111111
B = 11111111110111111111
C = 111110111011111011101111
D = 111110111011101101101111
E = 1111101111101111011111
F = 111110111101101101101111
G = 111110110110111101101111
H = 111101110101111011001111
I = 111110111010110111011111

```

```

J = 111110111011010111011111
K = 111101111101001110111111
L = 111100110101111001101111
M = 111101111011001011101111
N = 11110011010111100110101111
O = 1101111100010111110001101111
P = 111110111011011011111111
Q = 11111010110011101011001111
R = 110111110100111010011101111
S = 11111011101011010110011111
T = 111101111011011101011111
U = 11110011101100101010101111
V = 111101101001110100011101111
W = 111101011011001000101011101111
X = 11111010110100111001101111
Y = 111110110100101010001101111
Z = 1111010011100100011010101111
a = 1101111100001100011101101111
b = 111101101110110101101111

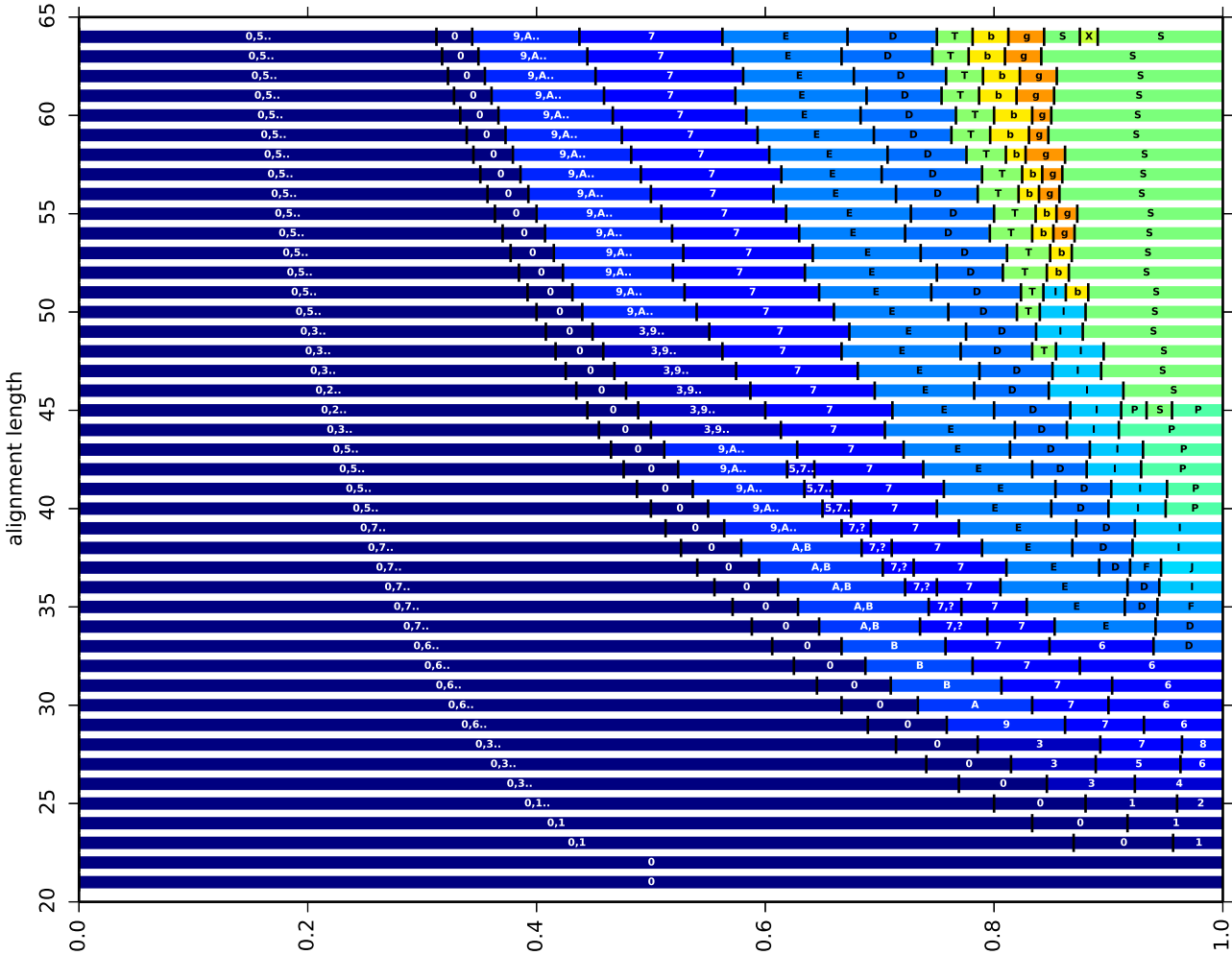
```

```

c = 11110110101010000110110011101111
d = 1101110111010010100001110110111
e = 111011101101100000010110001101111
f = 111101101010100010000101011111
g = 11110111011001110101101111
h = 1111100111000100101000110101111
i = 111100111001010010000101101111
j = 110111110011000100010101101001111
k = 1101111110110111011111
l = 111110101001001100001100110101111
m = 111101110110101111101111
n = 111101101111010011101111
o = 111100111011011101110111
p = 1110111101111010011101111
q = 111101110101101111001111
r = 1110111011100101110010101111
s = 11110111110011011101111
t = 1111011110010101110101111
u = 111110111010101110011111

```

$$\sum_0^x \text{Heaviside}(n:1,w:20)$$



```

0 = 11111111111111111111
1 = 11110111111111111111
2 = 11101111111011111111
3 = 11111110111111111111
4 = 11110111111011111111
5 = 11111011111101111111
6 = 1111101110111110111111
7 = 1111110111110111111111
8 = 1111101111101111011111
9 = 11111110111111111111
A = 1111111110111111111111
B = 11111111101111111111
C = 111110111011110110111111
D = 111110111011110110111111
E = 111110111110111101111111
F = 11111011110111011011111111
G = 11111011011011110111011111
H = 11110111010111101100111111
I = 11111011101011011101111111

```

```

J = 11111011101101011101111111
K = 11110111110100111011111111
L = 1111100110101111001101111111
M = 1111011110110010111011111111
N = 111110011010111100110101111111
O = 110111110001101111100011011111
P = 1111101110111001011011111111
Q = 111110101100111010110011111111
R = 110111110100111010011101111111
S = 1111101110101101011001111111
T = 1111011110101110101111111111
U = 111110011101100101010110111111
V = 111110101100111010001101111111
W = 11110101101100100010101110111111
X = 111110101011010011100110111111
Y = 111110101001010110001110111111
Z = 11111010011100101000110101111111
a = 110111110000110001110101111111
b = 1111011011101110101011111111

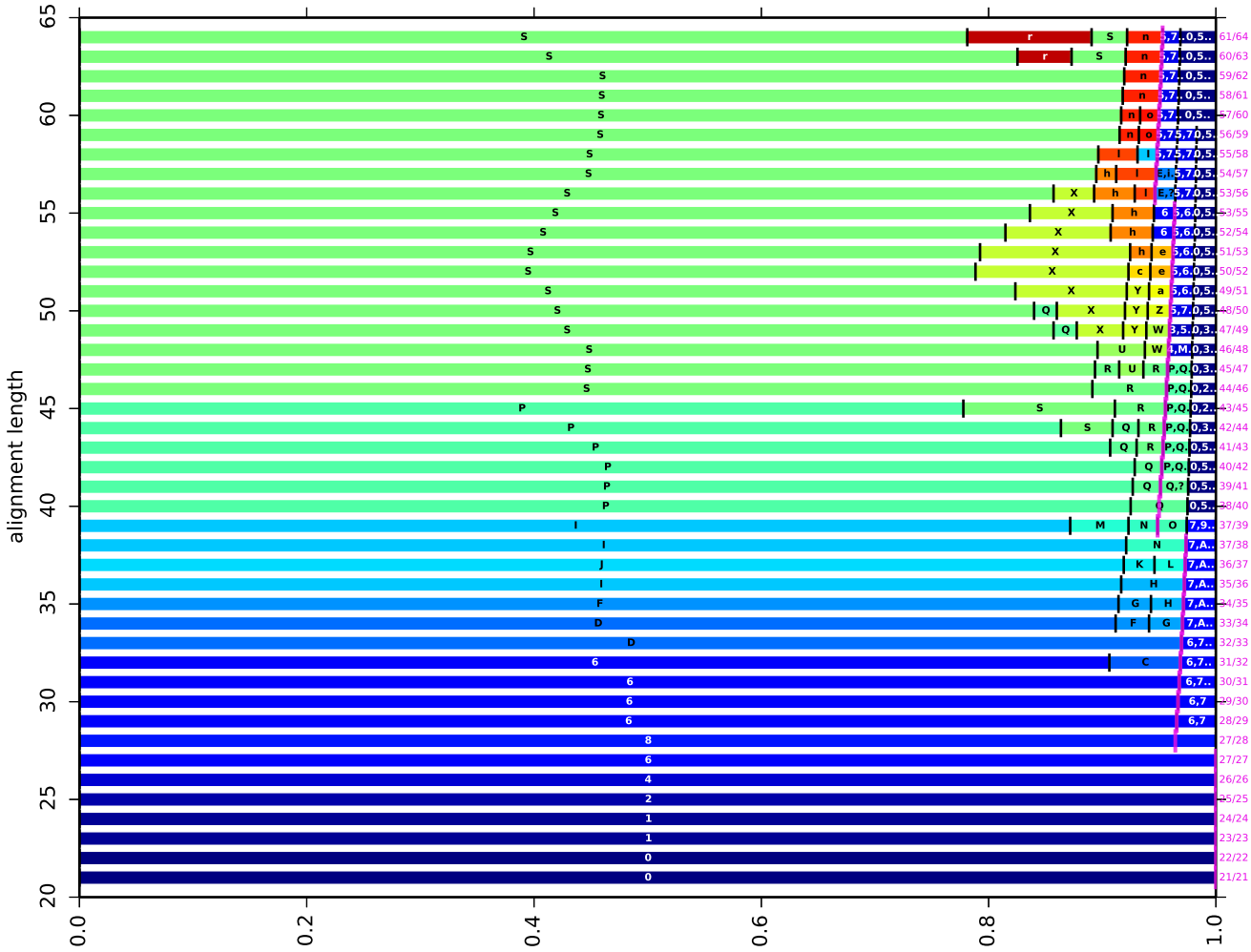
```

```

c = 11110110101010000110110011101111
d = 1101110110110010100001101110101111
e = 1110111011011000000101100011011111
f = 11111010110110001000010101111111
g = 111101110110011101011010111111
h = 1111100111000100101010011010111111
i = 1101100111001100101000101101111111
j = 1101111001100010001010110110011111
k = 1110111110110111011111111111
l = 111110101001001100001100110101111111
m = 11110111011010111111011111111111
n = 11110110111101001110111111111111
o = 11110100111011011111011111111111
p = 11110111011110100111011111111111
q = 1111011101011011011100111111111111
r = 1110111011100101110010110111111111
s = 1111011111001101111011111111111111
t = 1111011110010101110110111111111111
u = 1111101110101101110011111111111111

```

$$\sum_x^1 \text{Heaviside}(n;1,w:20)$$



```

0 = 11111111111111111111
1 = 11110111111111111111
2 = 11101111111101111111
3 = 11111101111111111111
4 = 11110111111101111111
5 = 11111011111110111111
6 = 11111011111011111111
7 = 11111101111110111111
8 = 11111011111101111111
9 = 11111110111111111111
A = 11111111101111111111
B = 11111111110111111111
C = 1111101110111111101111
D = 1111101110111101101111
E = 1111101111101111011111
F = 1111101111011101101111
G = 1111101101111011101111
H = 1111011101111011001111
I = 1111101110110111101111

```

```

J = 1111101110110111101111
K = 1111011111010011101111
L = 111100110101111001101111
M = 111101111011001011101111
N = 111100110101111001101111
O = 1101111100011011110001101111
P = 111110111101100110111111
Q = 11111011000110101100111111
R = 1101111101001110100011011111
S = 11111011101011010110011111
T = 1111011110110111010111111
U = 1111001110110010101011011111
V = 1111101101001110100011101111
W = 111101011011001000101011101111
X = 1111101010110100111001101111
Y = 1111101101001010100011011111
Z = 111110100110010100011010101111
a = 1101111100001100011101101111
b = 111101101110110101101111

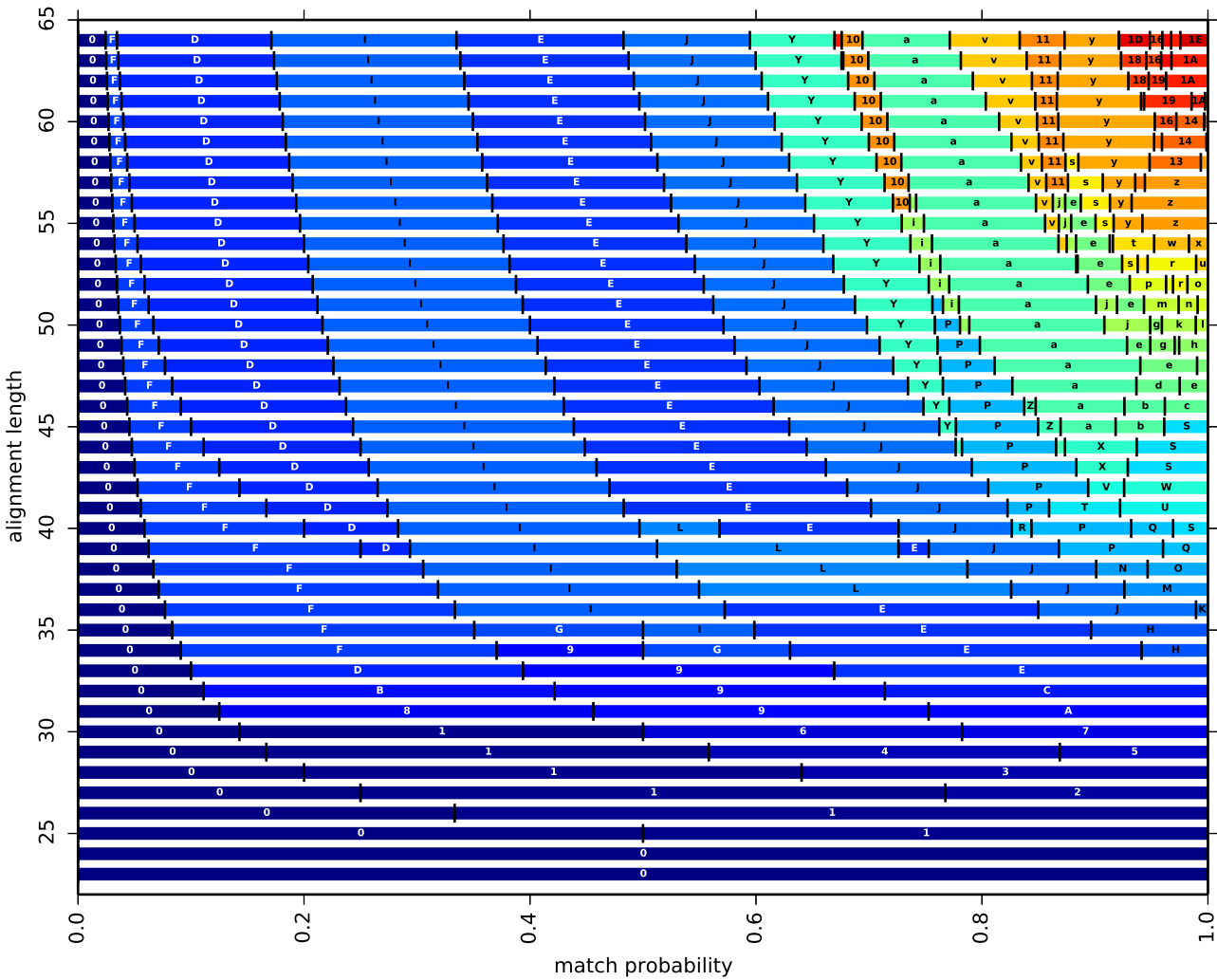
```

```

c = 11110110101010000110110011101111
d = 11011101110100101000011101110111
e = 1110111011011000000101100011101111
f = 111110110110001100001010111111
g = 111101110110011101011011111
h = 11111001110001001010001101011111
i = 1110100111001010010100001011101111
j = 1101111100110001000101011011001111
k = 111011111011011110111111
l = 1111101010010011000011001101011111
m = 11110111011010111111011111
n = 111101111110100111011111
o = 11110100111011101111011111
p = 1110111101111101001110111111
q = 11110111010110111100111111
r = 111011101110010111001011011111
s = 11110111110011011110111111
t = 1111011110010101110110111111
u = 11111011101010111001111111

```

Bernoulli (n:1,w:22)



```

0 = 11111111111111111111
1 = 11111101111111111111
2 = 11101111111111111111
3 = 11110111111110111111
4 = 11110111111101111111
5 = 11110111011111011111
6 = 11111011111011111111
7 = 1111101111101111101111
8 = 11111110111111111111
9 = 11111101111110111111
A = 1111101111101111101111
B = 11111111011111111111
C = 1111110111101111011111
D = 11111111101111111111
E = 1111101111101111011111
F = 11111111101111111111
G = 11111110111110111111
H = 1111011101111011101111
I = 11111110111110111111
J = 1111101110111101101111
K = 111110111011110110101111
L = 1111110111101110111111
M = 111101101011111011011111
N = 111110111101101110111111

```

```

O = 1111101110011111010110111111
P = 11111101110101101111011111
Q = 1111101011001111101011011111
R = 111101111011101110111111
S = 1111100110101110011010111111
T = 11111011101101011111011111
U = 111110101100111110101100111111
V = 11111011101100111010111111
W = 111110011101111101001110111111
X = 1111110111011010011110111111
Y = 11111011101101110111011111
Z = 1111101110111001011110111111
a = 111110111001110101101101111111
b = 11111010111010011110111111
c = 111101111011001001110101111111
d = 111110111011010010101101111111
e = 11111011100110100110101101111111
f = 111111010110010100111010111111
g = 111110111011001010010110111111
h = 111110111011001010010110111111
i = 111110111011101011011101111111
j = 111110111101001110011010111111
k = 111110101110011000111101011111
l = 111011110110110000111011101111

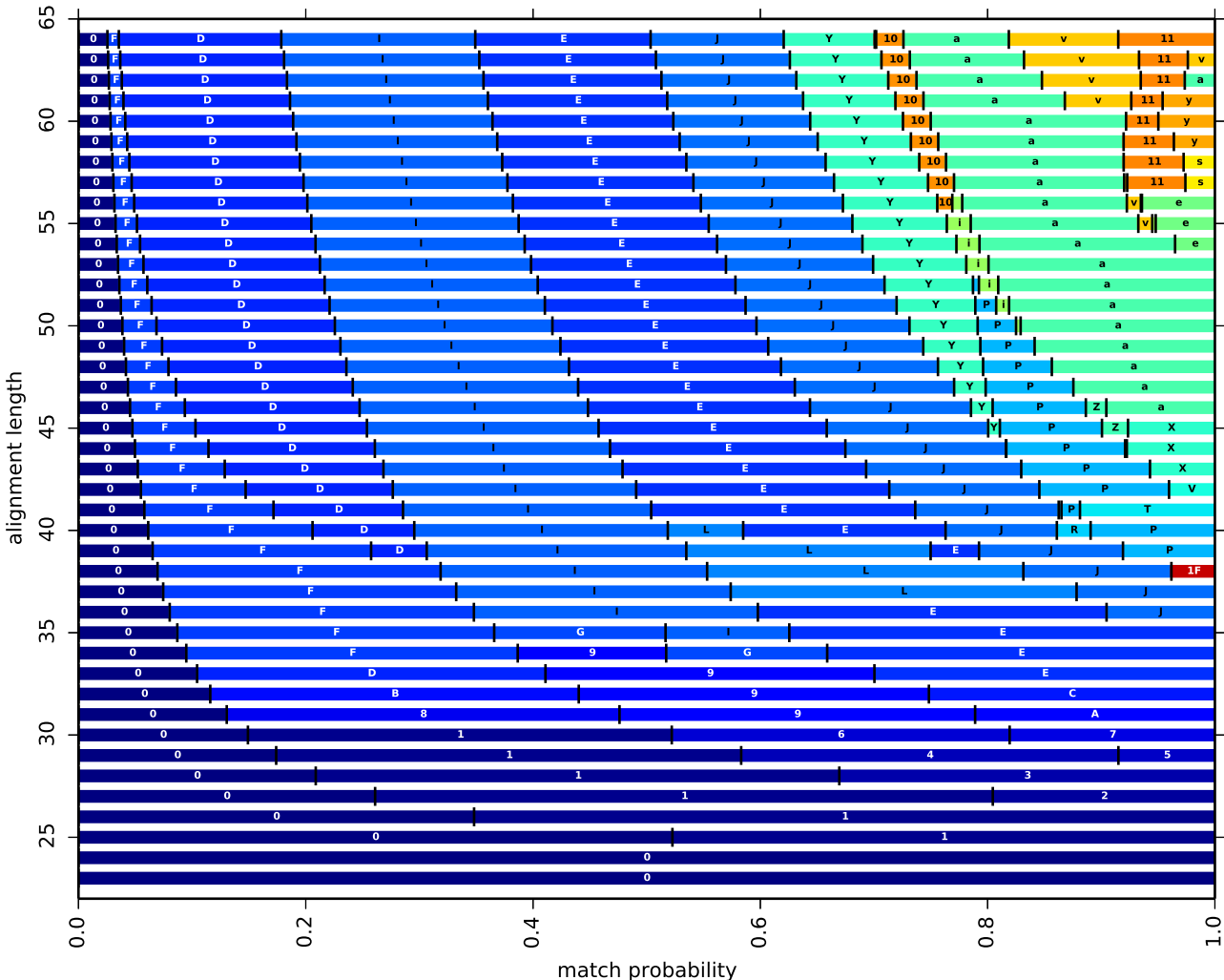
```

```

m = 11111011101100011010011010111111
n = 11101101111100011001110110111111
o = 11110111011011000001111011011111
p = 11110110111010001110011010111111
r = 1111010111110010001100111010111111
s = 11111001110011010011010101111111
t = 11101111101001001110100111011111
u = 1111010111110010001001111010111111
v = 111110110110101110011101111111
w = 1111010110110010001100111010111111
x = 1110110110111000010001110110111111
y = 11111011001110101001011001111111
z = 1110111110100111010010001110111111
10 = 1111101101011110111011011111
11 = 11110111011100101110010110111111
13 = 111110101110011000100100110101111111
14 = 1110110111110000100011001010110111111
16 = 111110011010001100010100110101111111
18 = 1111101011101100010001101010111111
19 = 11110101111010010010110001001110111111
1A = 11110111100010010011000100110101111111
1D = 111110101100101100011001011001111111
1E = 11101111100010010011000100110101111111

```


\int_0^x Hit Integration (n:1,w:22)



```

0 = 11111111111111111111
1 = 11111101111111111111
2 = 11101111111111011111
3 = 11110111111110111111
4 = 11111011111110111111
5 = 11110111011111011111
6 = 11111011111101111111
7 = 1111011111011111101111
8 = 11111110111111111111
9 = 11111011111110111111
A = 1111101111101111101111
B = 11111111011111111111

```

```

C = 111111011111011111011111
D = 1111111101111111111111
E = 111111011111011111011111
F = 1111111111011111111111
G = 1111111011111011111111
J = 1111110111111011111111
J = 111110111110111011101111
L = 1111101111011110111111
P = 111111011101011011101111
R = 1111011110111011101111
T = 1111011101101010111101111
V = 1111011110110011101011111

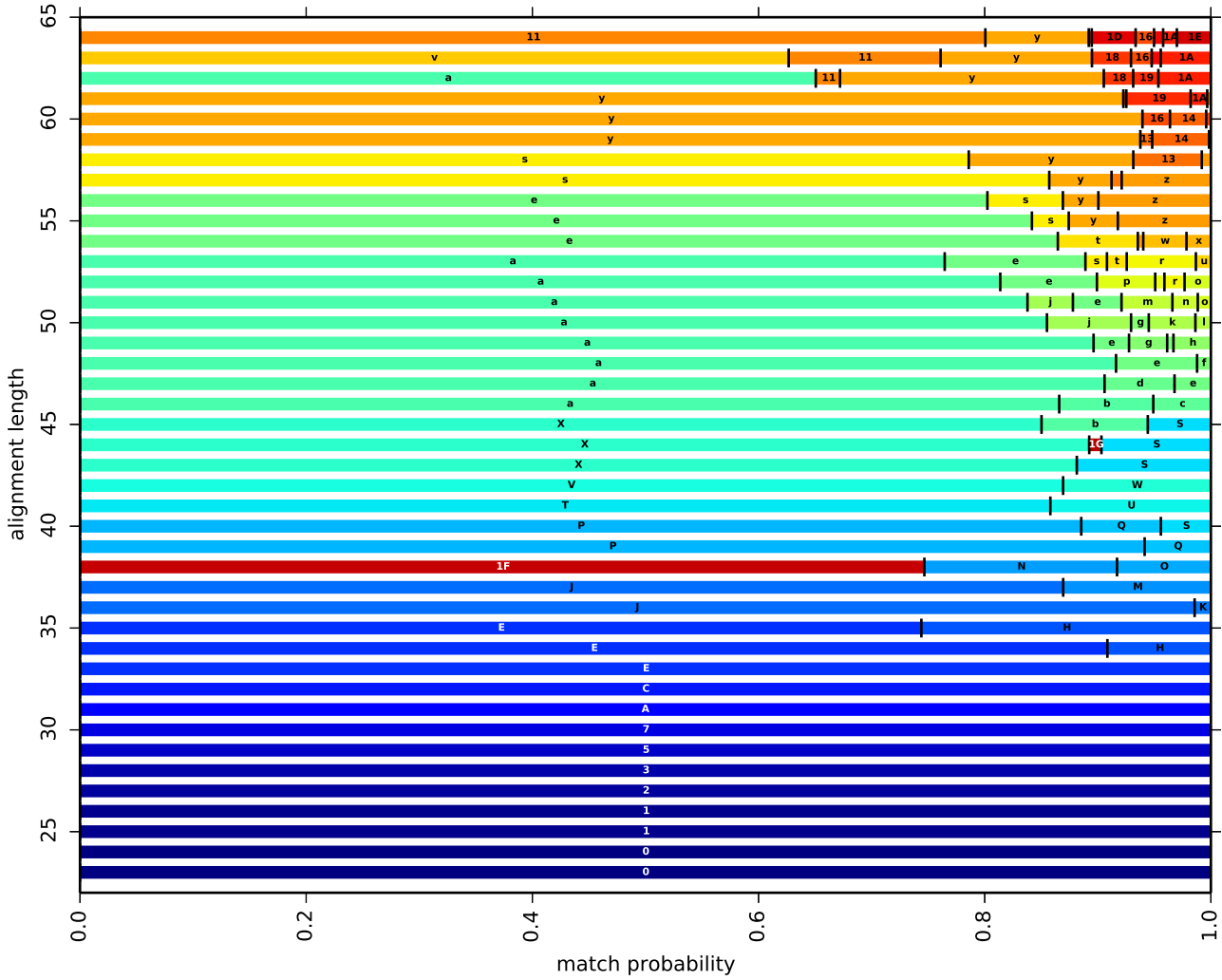
```

```

X = 11111011101101001111011111
Y = 111110111011011111011111
Z = 1111101110111100101111011111
a = 11111011100111010110111111
e = 11111011100110100110101011111
i = 11111011011101011011101111
s = 1111110011100110100110101011111
v = 111110110110101011100111011111
y = 11111010110011101010011100111111
10 = 11111011010101111011101111
11 = 111101110111001011100101101111
1F = 111110111101101110111111

```

\int_x^1 Hit Integration (n:1,w:22)



```

0 = 11111111111111111111
1 = 11111101111111111111
2 = 11010111111111011111
3 = 11110111111111101111
5 = 11110111011111011111
7 = 11110111110111110111
A = 11110111111011110111
C = 11111011111011110111
E = 11111011110111101111
H = 11110111011101110111
J = 11110111011101110111
K = 11110111011110110111
M = 11110101101111011011
N = 11110111011011101111
O = 11110111001111010111
P = 11111011010101110111
Q = 11110101100111101011
S = 11111001101011100110
T = 11110111011010111101
U = 11110101100111101011

```

```

V = 11110111101100111011
W = 11110100111011110100
X = 11111011101101001111
a = 11110111001110101101
b = 11110110111010011101
c = 11110111011001001110
d = 11110110110100101011
e = 11110110011010011011
f = 11111010111001100110
g = 11111010110010100111
h = 11110110111010010101
j = 11110101110100111001
k = 11110101101100110001
l = 11011101101100000110
m = 11110111011000110101
n = 11101101111000011001
o = 11110110110110000001
p = 11110101110100011101
r = 11110101111001000110

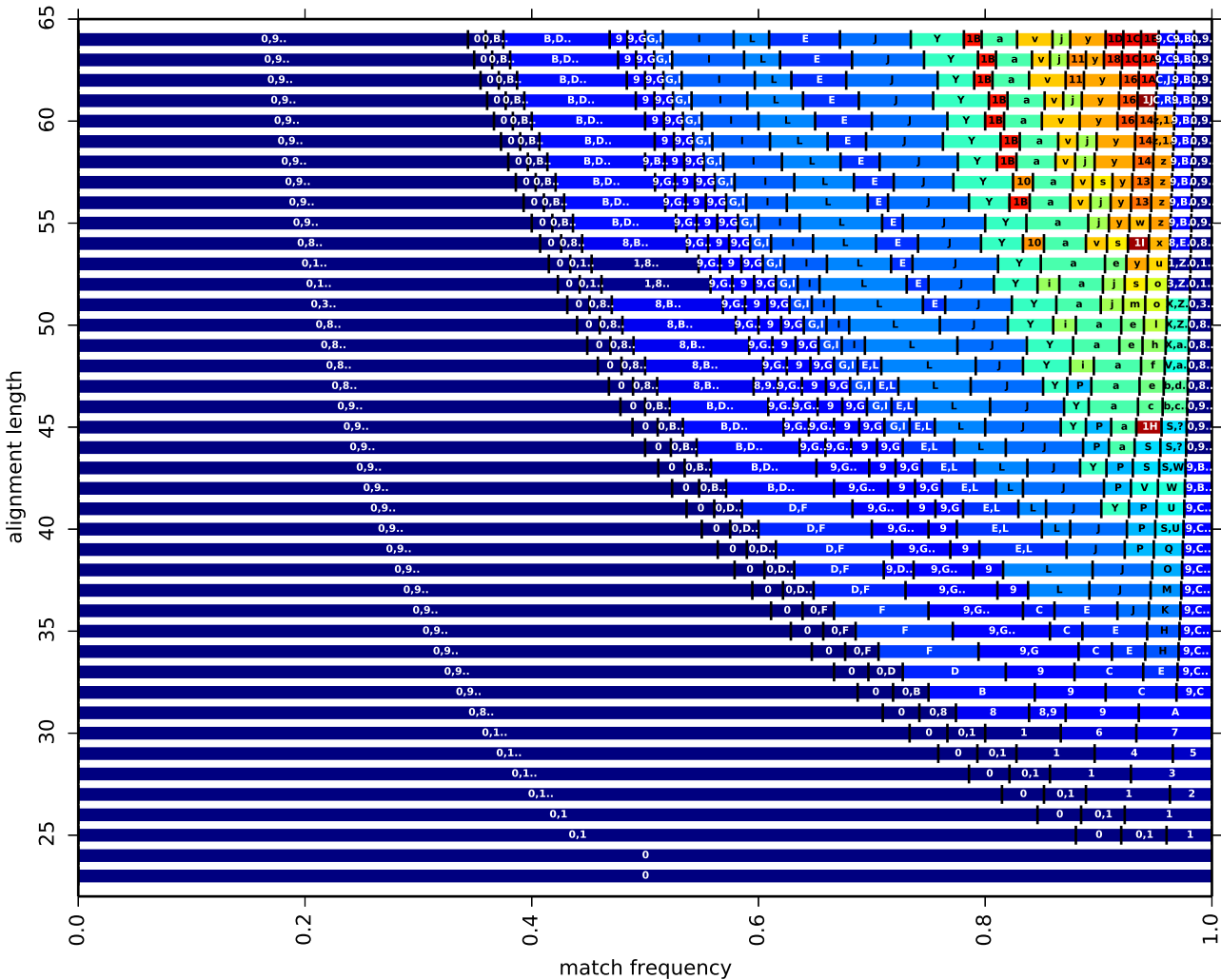
```

```

s = 11111001110011010011
t = 11011110100100110100
u = 11110101111001000100
v = 11110101101010110011
w = 11110101101000100011
x = 11011011011000010001
y = 11110101100111010100
z = 11011110100111010001
11 = 11110111011001011001
13 = 11111010111001000100
14 = 11101101111000010001
16 = 11111001101000100010
18 = 11111000110100110001
19 = 11110101110100010011
1A = 11110111100010010001
1D = 11110101010010100010
1E = 11101011110001001000
1F = 11110111101101111111
1G = 11110111110011011101

```

Dirac (n:1,w:22)



```

0 = 11111111111111111111
1 = 11111101111111111111
2 = 11101111111111111111
3 = 11110111111110111111
4 = 11110111111110111111
5 = 1111011110111111011111
6 = 11111011111101111111
7 = 1111101111110111101111
8 = 11111110111111111111
9 = 11111101111110111111
A = 1111101111110111101111
B = 11111110111111111111
C = 1111101111110111101111
D = 11111111101111111111
E = 1111101111011110111111
F = 11111110111011111111
G = 1111110111101111011111
H = 111110111011110111011111
I = 1111111011111011111111
J = 111101111011101110111111
K = 111110111011110110111111
L = 1111110111101110111111
M = 111110110101111011011111
N = 111110111101101101011111
O = 11111011100111101011011111
P = 111110111010110111011111
Q = 1111101011001111010110111111
R = 111101111011011101111111

```

```

S = 111111001101011110011010111111
T = 11111011101101011110111111
U = 111110101100111110101100111111
V = 11111011110100111010111111
W = 11110100110111101101001110111111
X = 11111101110101001110111111
Y = 1111101110110111101110111111
Z = 1111101111100101111010111111
a = 1111101110011101011011011111
b = 1111101101110101001110111111
c = 111101111011001001110101111111
d = 111110111011010010101110111111
e = 111110111001010011010101011111
f = 111111010111001100011011011111
g = 111111010110010110011010111111
h = 11110111011101001010010110111111
i = 11111011011101011111011111
j = 111101101110100111001101011111
k = 11111010111011001100011101011111
l = 111011101101100000110111011111
m = 111110111100011010010101111111
n = 11101101111000011001110110111111
o = 111110110110100000111011011111
p = 11110110111010001110011010111111
q = 11101110110110000110101101111111
r = 11111011110010001100111010111111
s = 11111100111001101001101010111111
t = 11101111101001001110100111011111

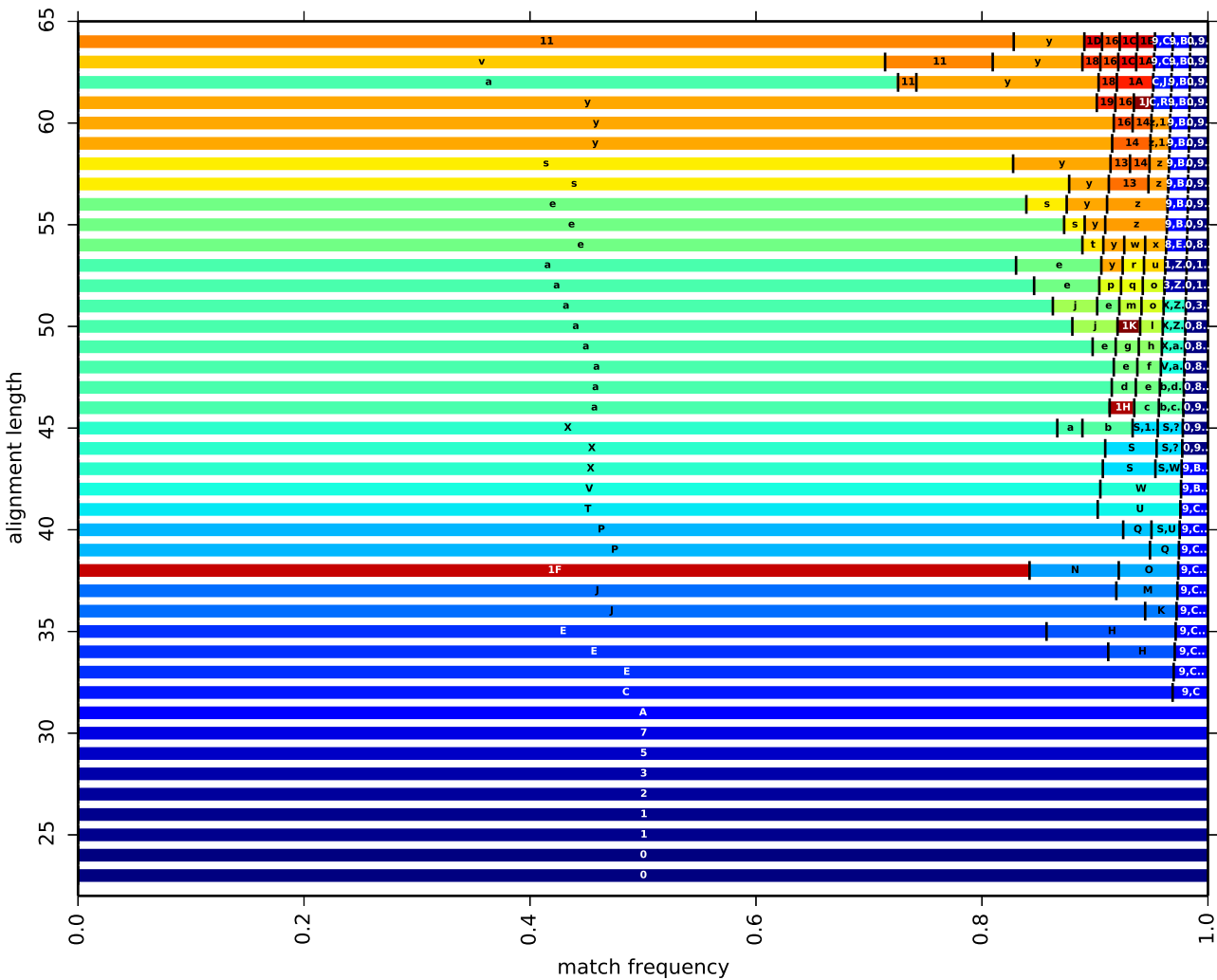
```

```

u = 1111101011111001000100111101011111
v = 111110110110101011100110111111
w = 1111010110110010001001110101011111
x = 1110110110111000010001110110111111
y = 11111010110011101010010100111111
z = 1110111101001110100100011010111111
10 = 11111011011010101111011011111111
11 = 1111101111011001011110101101111111
12 = 1111101110010101100101100101111111
13 = 111110101110011000100010010101111111
14 = 11101101111100001000110001010110111111
15 = 11111010110110010001000011101010111111
16 = 111110011010001100010100110101111111
17 = 1111011101100100101001000111001111111
18 = 111110100111010011000100101011111111
19 = 111101101101001001011000100110101111111
1A = 11110111000100100110001001010101111111
1B = 11111011101101101110110110111111
1C = 111110101011000110001001001010011111111
1D = 11111010100101100011000101001111111111
1E = 111010111000100100100010011010101111111
1F = 11110111101011011011111111
1G = 111101111100110101101101111111
1H = 11111011101101001010110110111111
1I = 1111101011011000100011001101010111111
1J = 11111010110101000100011001010011111111
1K = 11111010110100011001110101111111

```


$$\sum_x^1 \text{Heaviside}(n:1,w:22)$$



```

0 = 11111111111111111111
1 = 11111101111111111111
2 = 11101111111111111111
3 = 11101111111101111111
4 = 11110111111101111111
5 = 1111011110111111011111
6 = 11111011111101111111
7 = 111110111101111111011111
8 = 11111110111111111111
9 = 1111111011111101111111
A = 111110111111011110111111
B = 11111110111111111111
C = 111111011111011110111111
D = 1111111110111111111111
E = 111111011110111101111111
F = 1111111111011111111111
G = 111111101111011110111111
H = 11111011101111011110111111
I = 111111101111110111111111
J = 11111011110111011101111111
K = 11111101110111110110111111
L = 111111011111011110111111
M = 11111011010111110111011111
N = 11111011110110111010111111
O = 1111101110011111010110111111
P = 11111101110101101110111111
Q = 11111011001111010110111111
R = 111101111101101110111111

```

```

S = 111111001101011110011010111111
T = 1111101110110101111101111111
U = 11111011011001111101011001111111
V = 1111101111011001110101111111
W = 111110011101111101001110111111
X = 1111101110110100111101111111
Y = 1111101110110111101110111111
Z = 1111101110111001011101111111
a = 111110111001110101101101111111
b = 111110110111010100111101111111
c = 111110111101001001111011111111
d = 111110111011010010101110111111
e = 11111011100110011001101010111111
f = 11111101011100110001101101111111
g = 11111101010010110011101011111111
h = 111110111101001010010101111111
i = 111110110111010111111011111111
j = 11111011011101001110011011111111
k = 1111101101101100110001111010111111
l = 11101111011011000001111011011111
m = 11111011110100011100110101111111
n = 11101101111100001100111011011111
o = 11111011011011000001111011011111
p = 1111011011110100011100110101111111
q = 1110111011011000010110101110111111
r = 1111101111100100011001110101111111
s = 11111100111001101001101010111111
t = 1110111110100100111101001110111111

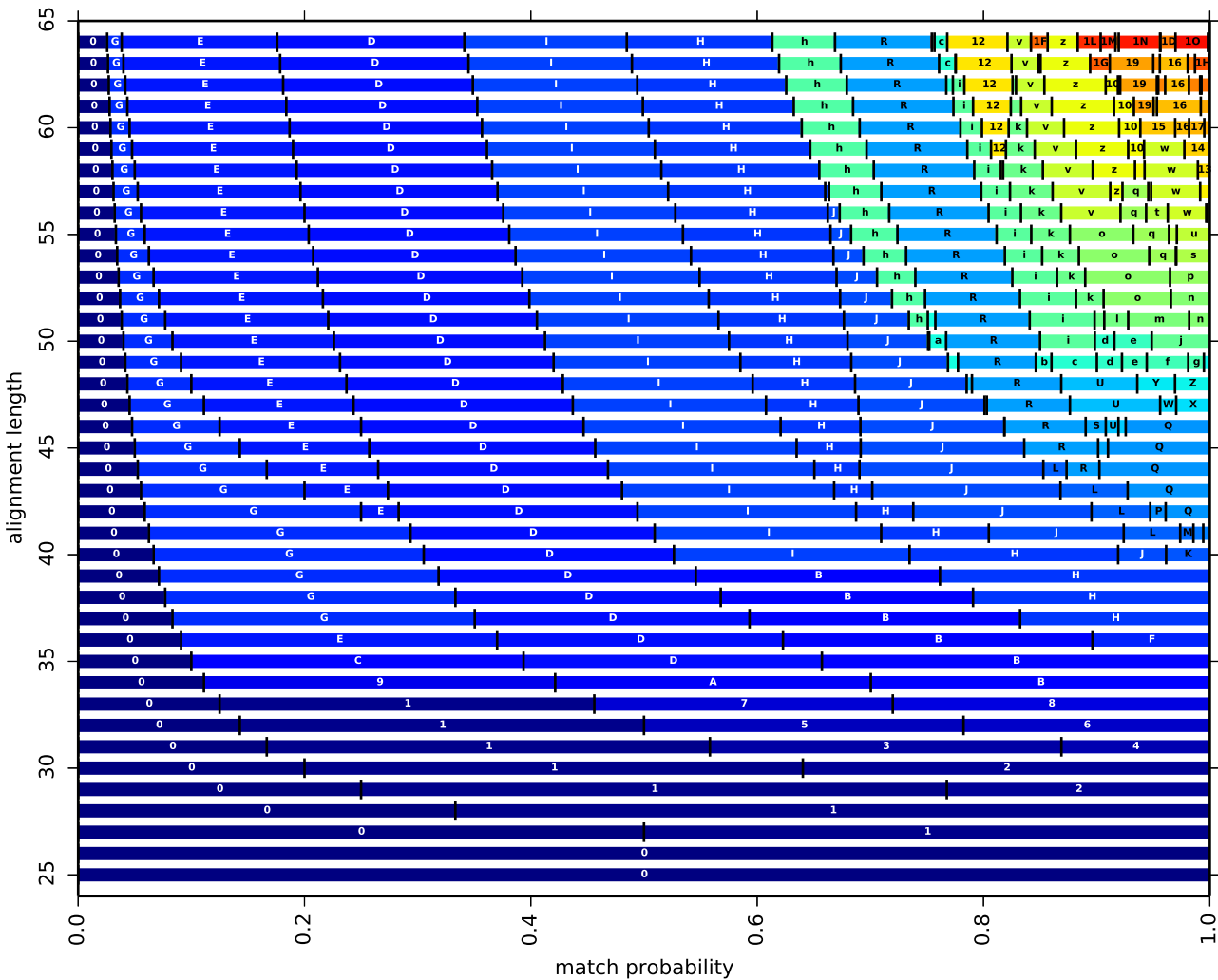
```

```

u = 1111101011111001000100111101011111
v = 111110110110101011100110111111
w = 111101101101100100011001110101111111
x = 1110110110111000010001110110111111
y = 1111101011001110101001011001111111
z = 111011111010011110100100011101111111
10 = 11111011011010111101110111111111
11 = 1111101110111001011100101101111111
12 = 1111101110010101100101100101111111
13 = 111110101110011000100100101011111111
14 = 11101101111100001000110010101101111111
15 = 1111101011011001000100001110101111111
16 = 111110011100011000100010101101111111
17 = 11110111011001001010010001110011111111
18 = 1111101001110100110001100101011111111
19 = 11110101110100100101100010011011111111
1A = 11110111100010010011000100101011111111
1B = 1111011110111010111101111111111111
1C = 111110101110001100010010011010011111111
1D = 1111101010100101100011001011001111111111
1E = 1110101111000101001100010011010111111111
1F = 1111101110110111011111111111111111
1G = 1111011111001101011011111111111111
1H = 1111011101110100101011011011111111111
1I = 1111101011011001000110011101011111111111
1J = 1111101011010100010001100101100111111111111
1K = 111110101101100011001110101111111111111111

```

Bernoulli (n:1,w:24)

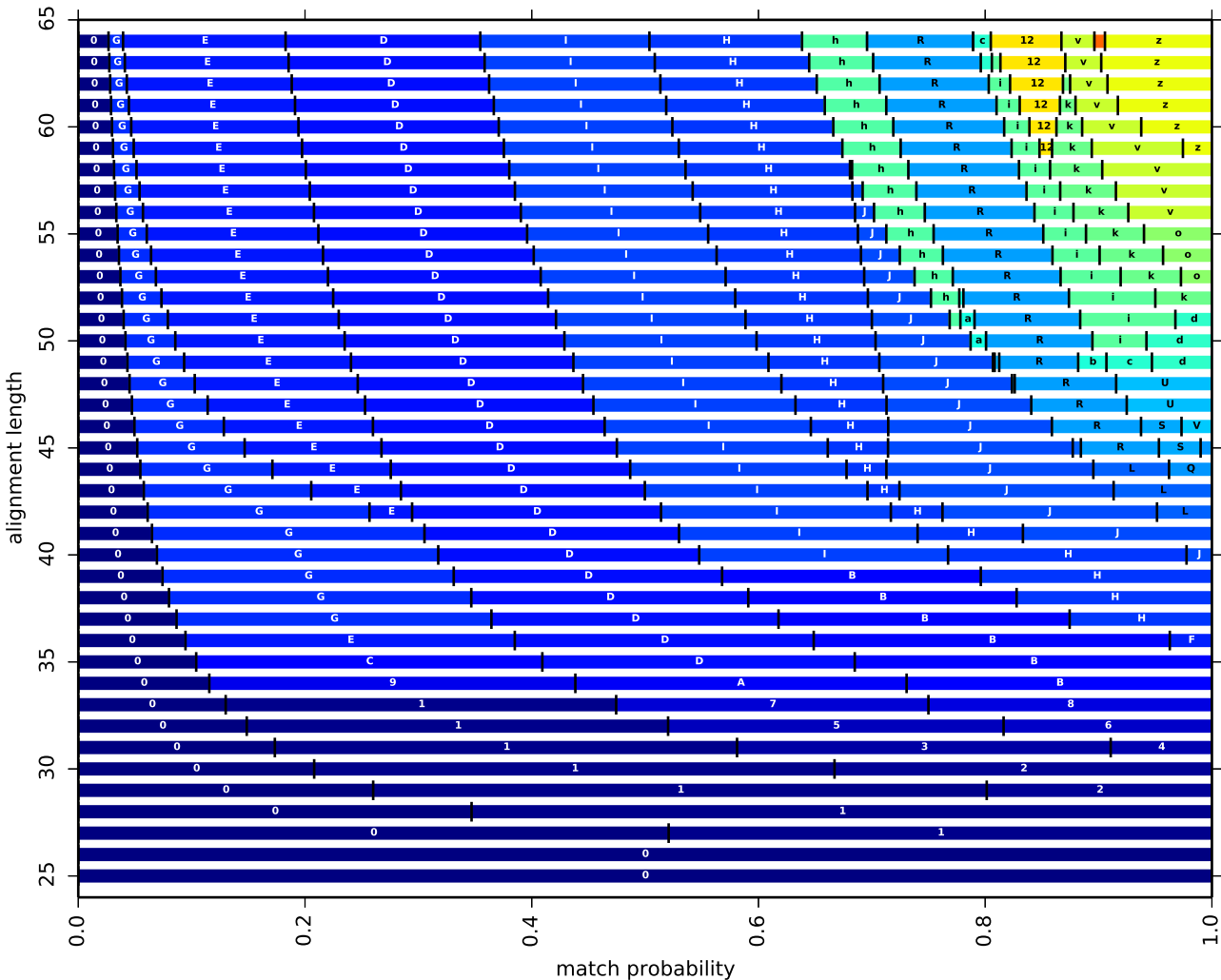


0 = 11111111111111111111111111111111
 1 = 11111110111111111111111111111111
 2 = 11110111111111111111111111111111
 3 = 11111011111111111111111111111111
 4 = 11110111101111111111111111111111
 5 = 11111101111111111111111111111111
 6 = 11111011111011111111111111111111
 7 = 11111110111111111111111111111111
 8 = 11111011111111111111111111111111
 9 = 11111110111111111111111111111111
 A = 11111111011111111111111111111111
 B = 11111101111111111111111111111111
 C = 11111111011111111111111111111111
 D = 11111111011111111111111111111111
 E = 11111111110111111111111111111111
 F = 11111101110111111111111111111111
 G = 11111111111111111111111111111111
 H = 11111101110111111111111111111111
 I = 11111101111111111111111111111111
 J = 11111101111111111111111111111111
 K = 11111011101011111111111111111111
 L = 11111101111111111111111111111111
 M = 11111011100111111111111111111111
 P = 11110111010011111111111111111111

Q = 11111001101011111111111111111111
 R = 11111011101111111111111111111111
 S = 11111011110111111111111111111111
 U = 11110111011111111111111111111111
 W = 11101111110100111111111111111111
 X = 11111100110101011111111111111111
 Y = 11110111011111111111111111111111
 Z = 11111001101011111111111111111111
 a = 11111011110111111111111111111111
 b = 11111011110111111111111111111111
 c = 11111011101111111111111111111111
 d = 11110111011111111111111111111111
 e = 11111011101111111111111111111111
 f = 11111011101111111111111111111111
 g = 11101111110100111111111111111111
 h = 11111011110111111111111111111111
 i = 11111011101111111111111111111111
 j = 11111011101111111111111111111111
 k = 11111011101111111111111111111111
 l = 11111011111111111111111111111111
 m = 11111001110111111111111111111111
 n = 11111011101111111111111111111111
 o = 11110111011111111111111111111111
 p = 11110111011111111111111111111111

q = 1111110011101110100110100111111111
 s = 11101101111111111111111111111111
 t = 11101111111111111111111111111111
 u = 11011111111111111111111111111111
 v = 11111011100111111111111111111111
 w = 11111101111111111111111111111111
 z = 11111101111111111111111111111111
 10 = 11111101001111111111111111111111
 12 = 11111101111111111111111111111111
 13 = 11101101111111111111111111111111
 14 = 11111011110111111111111111111111
 15 = 11111011110100111111111111111111
 16 = 11111011111111111111111111111111
 17 = 11111011111111111111111111111111
 19 = 11111101111111111111111111111111
 1D = 11111011111111111111111111111111
 1F = 11111011111111111111111111111111
 1G = 11111001111111111111111111111111
 1H = 11111011111111111111111111111111
 1I = 11111011111111111111111111111111
 1M = 11111001111111111111111111111111
 1N = 11111011111111111111111111111111
 1O = 11111011111111111111111111111111

\int_0^x Hit Integration (n:1,w:24)



```

0 = 11111111111111111111111111111111
1 = 11111111011111111111111111111111
2 = 11110111111111111101111111111111
3 = 11111011111111011111111111111111
4 = 11110111101111111101111111111111
5 = 11111101111111110111011111111111
6 = 11111011110111110111011111111111
7 = 11111101111111011101111111111111
8 = 11111011111101111101110111111111
9 = 11111110111111110111111111111111
A = 11111110111111110111110111111111
B = 11111011111101111101111101111111
C = 111111111011111111111111111111

```

```

D = 11111110111111101111111111111111
E = 11111111101111111111111111111111
F = 11111011101111101111110111111111
G = 11111111110111111111111111111111
H = 11111011101111110111101111111111
I = 11111011111011111011101111111111
J = 11111011110110111101110111111111
L = 11111011111010110110111011111111
Q = 11111001101011111100110101111111
R = 11111011101111011010110111011111
S = 11111011101110010111110111111111
U = 11110110111101001111011101111111

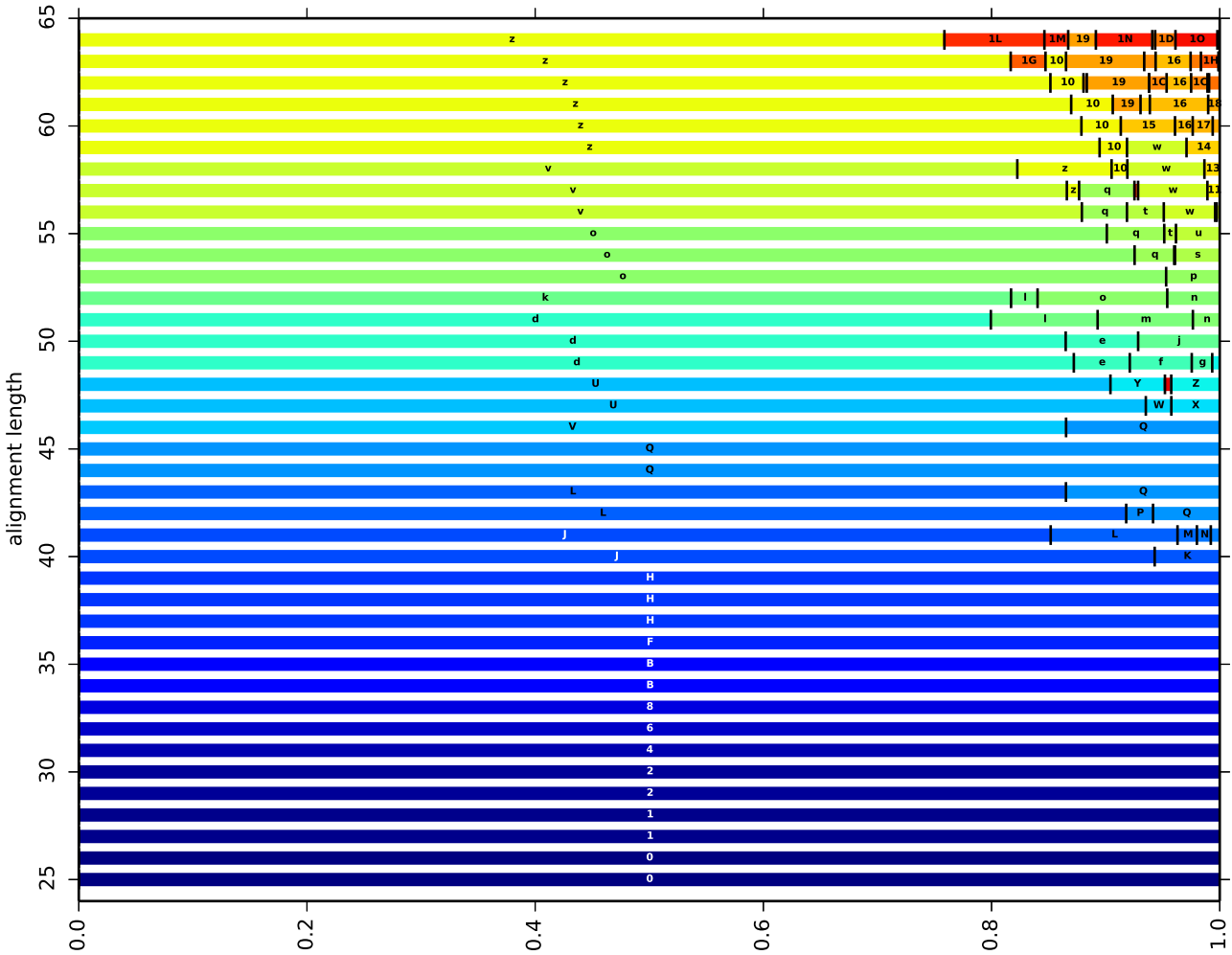
```

```

V = 11111011110100110111101111111111
a = 11111011110111011011101111111111
b = 11111011110110111011101111111111
c = 11111011101101001111011101111111
d = 11110111010111010011110111111111
h = 11110111101110111011101111111111
i = 11110111011101101001111011111111
k = 11111011011011001110101110111111
o = 1111011101110010111001011011111111
v = 1111101110011011010011101011111111
z = 1111110101110011011010011011111111
12 = 1111101011011011100111101011111111

```

\int_x^1 Hit Integration (n:1,w:24)



```

0 = 11111111111111111111
1 = 11111110111111111111
2 = 1111011111111110111111
4 = 111101111011111110111111
6 = 111101111101111101111111
8 = 111110111110111110111111
B = 111110111110111110111111
F = 11111011101111011110111111
H = 11111011101111101111011111
J = 11111011110111011110111111
K = 11110111010111101110111111
L = 111110111110101101110111111
M = 111101110011111010110111111
N = 1111011110101110110010111111
P = 11110111010011110110110111111
Q = 111110011010111110011010111111
U = 111101110111101001111011011111
V = 1111101111010011011110111111
W = 111011111010011101110100111011111

```

```

X = 11111001101010111110011010111111
Y = 111101101111010011010110111111
Z = 111110011010110101110011010111111
d = 111101110101110100111101111111
e = 11110111011010100111101110111111
f = 1111011101101001011110110111111
g = 11101111010011101101001110111111
j = 111101101110100011101010111111
k = 111110110101100111010110111111
l = 11110111100011011101010111111
m = 111110011101010011010110111111
n = 111110111010110010011110111111
o = 111011101110010111001010111111
p = 11110111010110100001110110111111
q = 11111001110110100110100110111111
s = 11101101111100011000110101111111
t = 11101111101001001110100110111111
u = 11011110110101110000110011010111111
v = 1111011100110110100111010111111

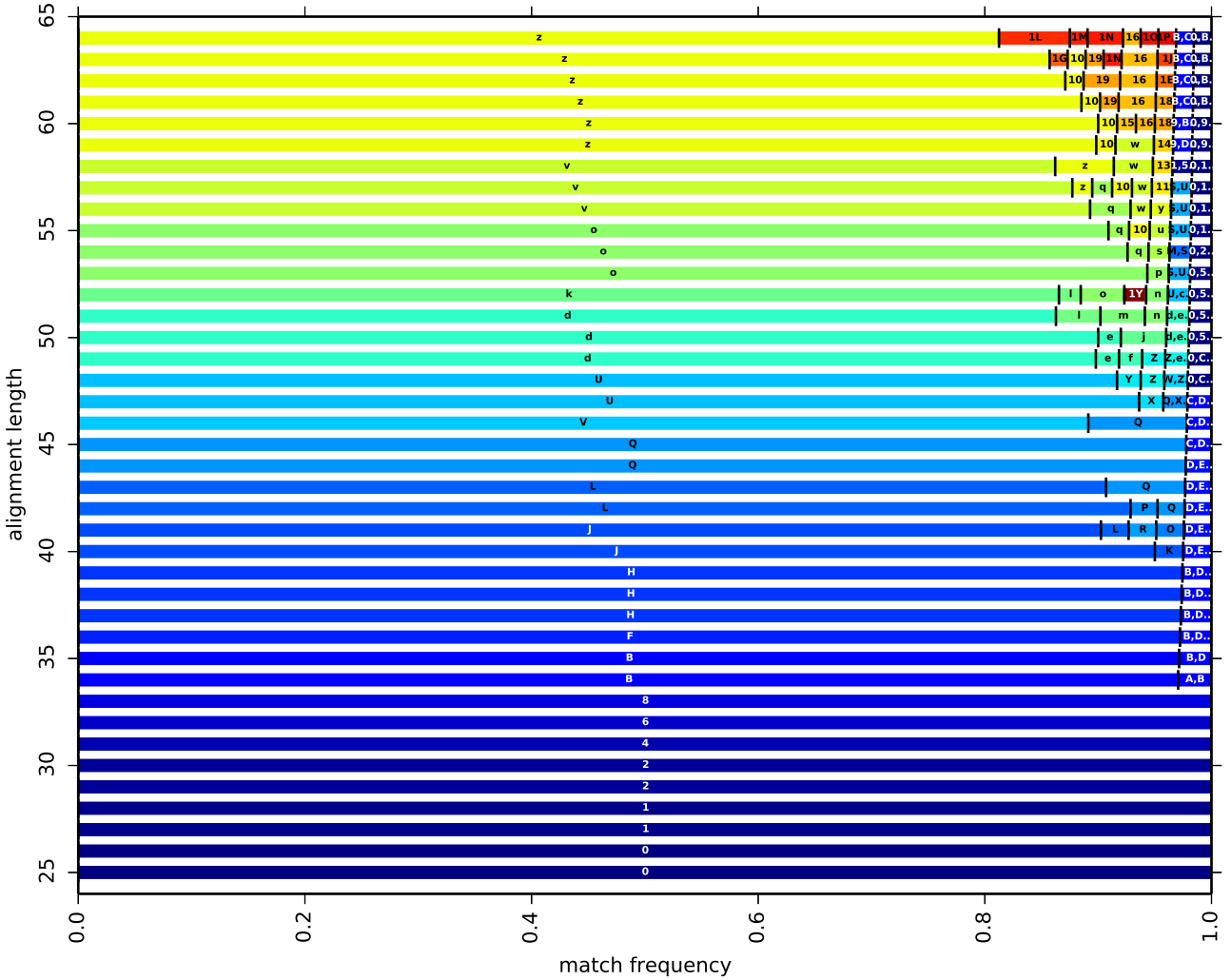
```

```

w = 11111010110110010001100111010111111
z = 1111110101110011010110100110111111
10 = 1111101001110101001101001110111111
11 = 111011110110110000001011101110111111
13 = 111011011111000010100011101101111111
14 = 1111011101011100000010101101110111111
15 = 111110110100101101010001101101111111
16 = 111110101110011000100100110110101111111
17 = 11111010011101000101000110101101111111
18 = 11111010111101000100011001110101111111
19 = 1111110101011001100011100101101111111
1C = 11110111011011000011010100011101111111
1D = 11111010111001010100110001011011111111
1G = 111110011100110100110110101011111111
1H = 111111010111000010010011001101011111111
1L = 11111011101011000110101101100111111111
1M = 11111001110010110010101100101111111111
1N = 111110111001001011001010111001011111111
1O = 1111101110100101010011000100111011111111

```


$$\sum_x \text{Heaviside}(n:1,w:24)$$



```

0 = 111111111111111111111111
1 = 111111110111111111111111
2 = 111101111111111110111111
3 = 111101111111111110111111
4 = 111101111111111110111111
5 = 111110111111111110111111
6 = 111110111111111110111111
7 = 111111011111111110111111
8 = 111111011111111110111111
9 = 111111110111111110111111
A = 111111110111111110111111
B = 111111011111111110111111
C = 111111111011111110111111
D = 111111110111111110111111
E = 111111111101111110111111
F = 111111011111111110111111
G = 111111111101111110111111
H = 111111011111111110111111
I = 111111011111111110111111
J = 111111011111111110111111
K = 111101111011111110111111
L = 111110111111111110111111
M = 111110111001111110111111
N = 111110111101111110111111
O = 11111011100101111110111111
P = 111101111001111110111111
Q = 1111100110101111100111111
R = 1111011101111110111011111
S = 111110111101110011111011111
T = 1111011110111110111011111
U = 111101110111101001111011111
V = 1111101111010011101111111
W = 111011111010011101110111111

```

```

X = 111110011010101111001101011111
Y = 1111011101111010011010111011111
Z = 1111100110101101011001101011111
a = 11111011110111011011101111111
b = 11111011110110111011101111111
c = 111110111011010011110110111111
d = 111101110110111010011110111111
e = 1111101110110101001110111011111
f = 1111101110110010111110111011111
g = 1110111101001110110100111011111
h = 11111011110111011101101111111
i = 11111011101110110011101111111
j = 1111101101110110001110111011111
k = 1111101101101100111010111011111
l = 1111101111000110111010110111111
m = 1111110011101101001101011101111
n = 1111101110110110010010111011111
o = 1111101110110010111001101111111
p = 111101110110110100001111011011111
q = 1111100111011010011010011101111
r = 1111101111000011010110111011111
s = 111011011111100011000111011011111
t = 11101111100100111001101111111
u = 11011110110101110000110011101101111
v = 1111101110011011010011101111111
w = 111111010110110010001100111011111
x = 111110101110011000101101101111111
y = 111101111011101000001011011101111
z = 1111101011100110101100110111111
10 = 111110100111011001101001110111111
11 = 111011110110110000010111011101111
12 = 1111110101101101110011101011111

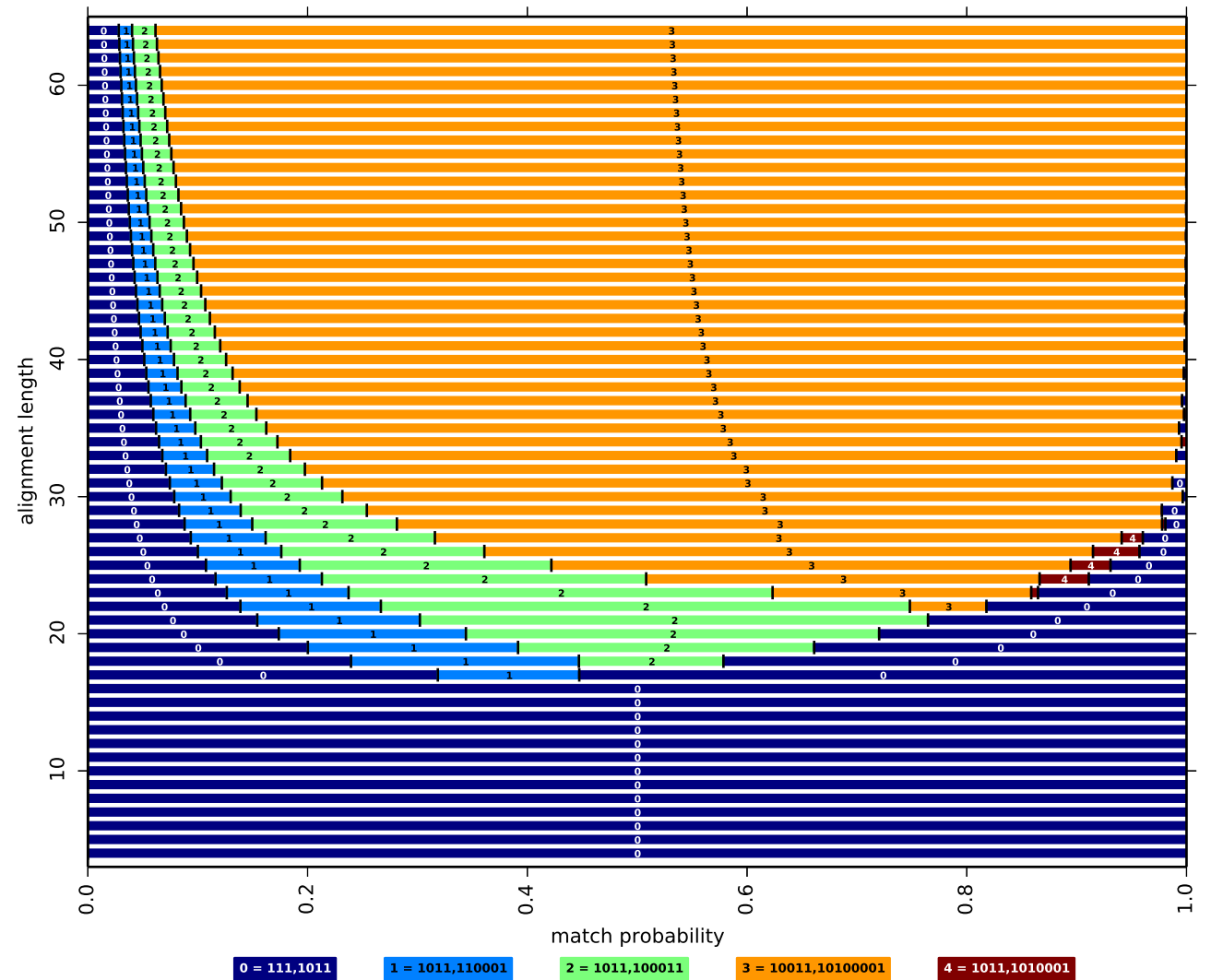
```

```

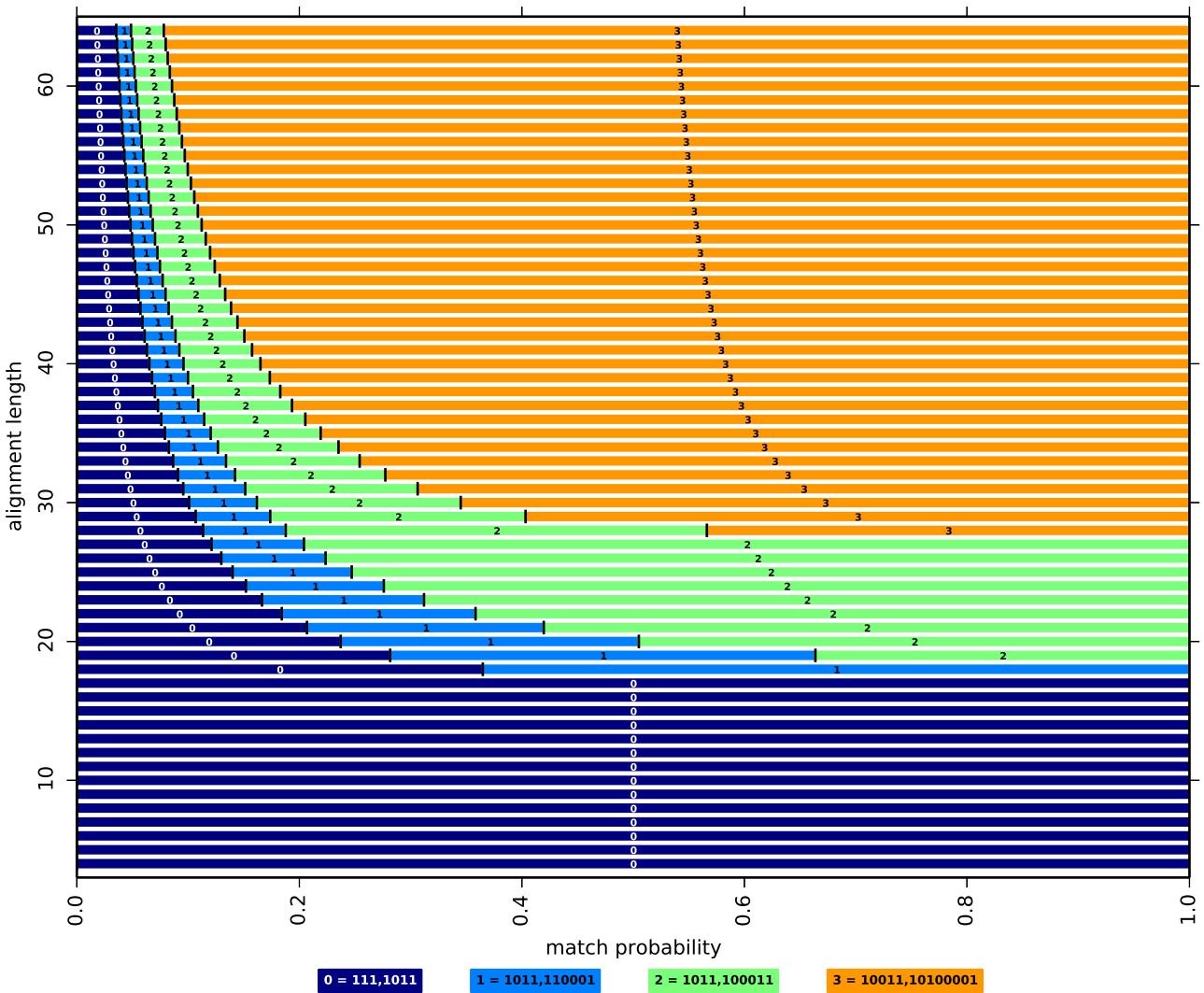
13 = 11101101111100001010001110110111111
14 = 1111011101011100000010101101110111111
15 = 1111101110100101101010001101110111111
16 = 11111010111001100010010011011010111111
17 = 1111101001101000101000110101101111111
18 = 1111101011110100010001100111010111111
19 = 1111110101110011000111001101101111111
1A = 1110111101001110101001101001110111111
1B = 1111101110011010000111010010111011111
1C = 1111011101101100001101010001110111111
1D = 11111010111001010100110001011011011111
1E = 11101110111110000001010010101110111111
1F = 111110110110011100111001101110111111
1G = 11111100110011010011011010101111111
1H = 11111101011100001001001100110110111111
1I = 111110101111001000100010011110110111111
1J = 1111110101010101101001001100011111111
1K = 11111011101101110011100110111111111
1L = 111110111010110001101011011001111111
1M = 11111001110010110010111100101111111
1N = 111110111001001011001011100101111111
1O = 1111101110010101001100010011110111111
1P = 1111011011100100011001100011101111111
1Q = 111101110101111001011011101111111
1R = 11110111110010011101001111011111111
1S = 11111101010111001101011101111111111
1T = 111110101111001110101110111111111
1U = 111110111011011011011011111111111
1V = 11111011011100110101101011101111111
1W = 11111011001011010101011100111111111
1X = 11111101010100110000100010110101111111
1Y = 11111001110101100101101110111111111

```

Bernoulli (n:2,w:3)



\int_0^x Hit Integration (n:2,w:3)



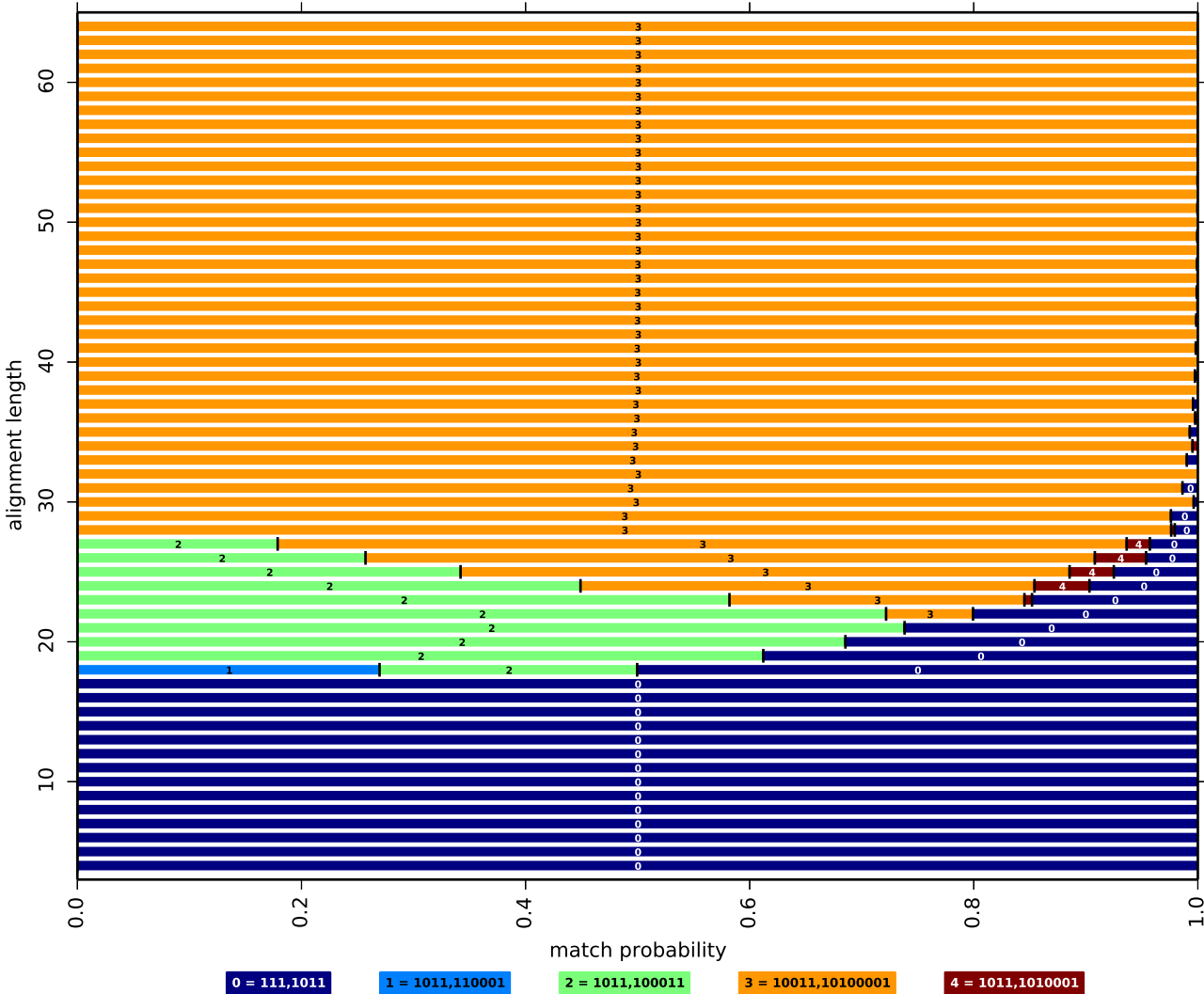
0 = 111,1011

1 = 1011,110001

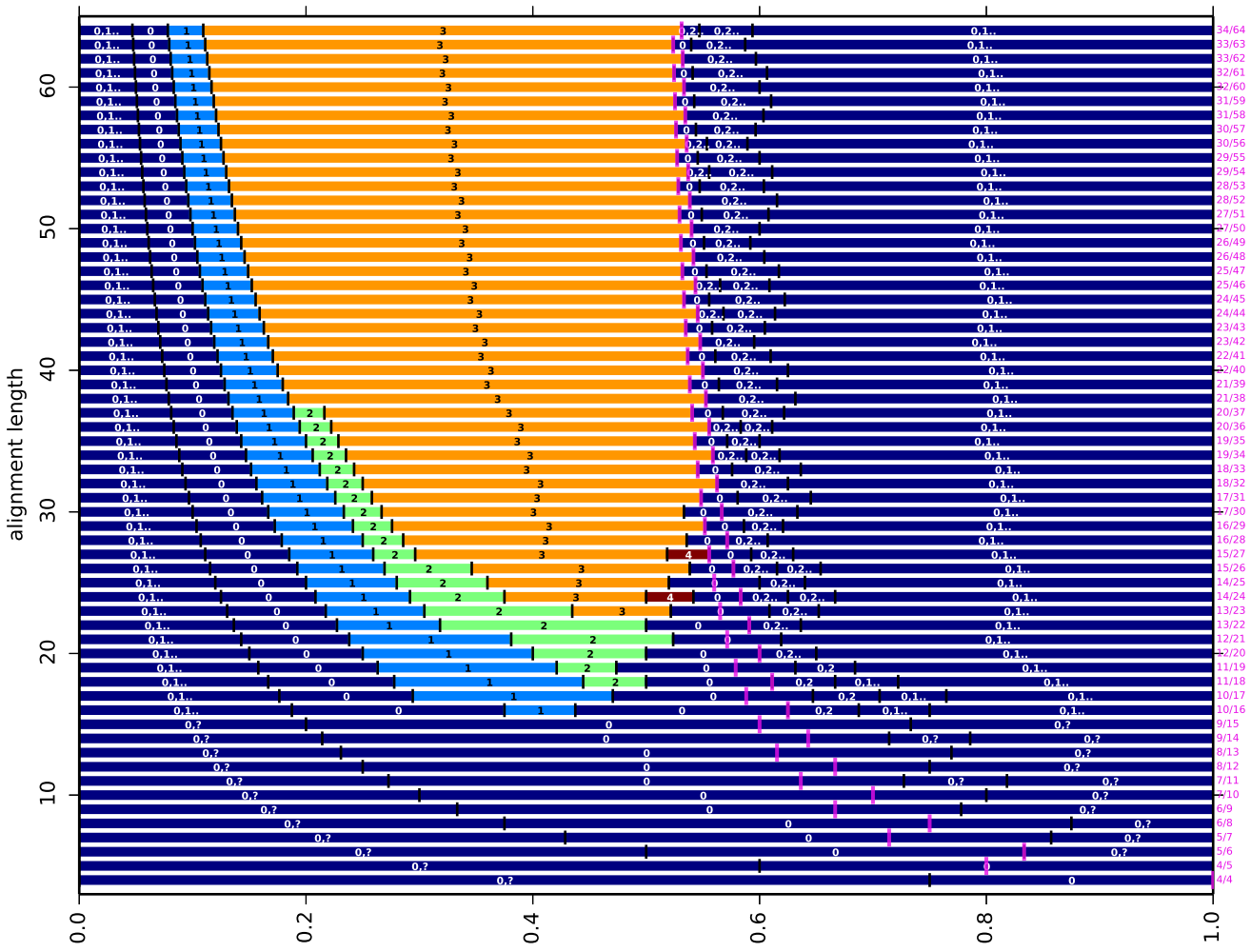
2 = 1011,100011

3 = 10011,10100001

\int_x^1 Hit Integration (n:2,w:3)



Dirac (n:2,w:3)



0 = 111,1011

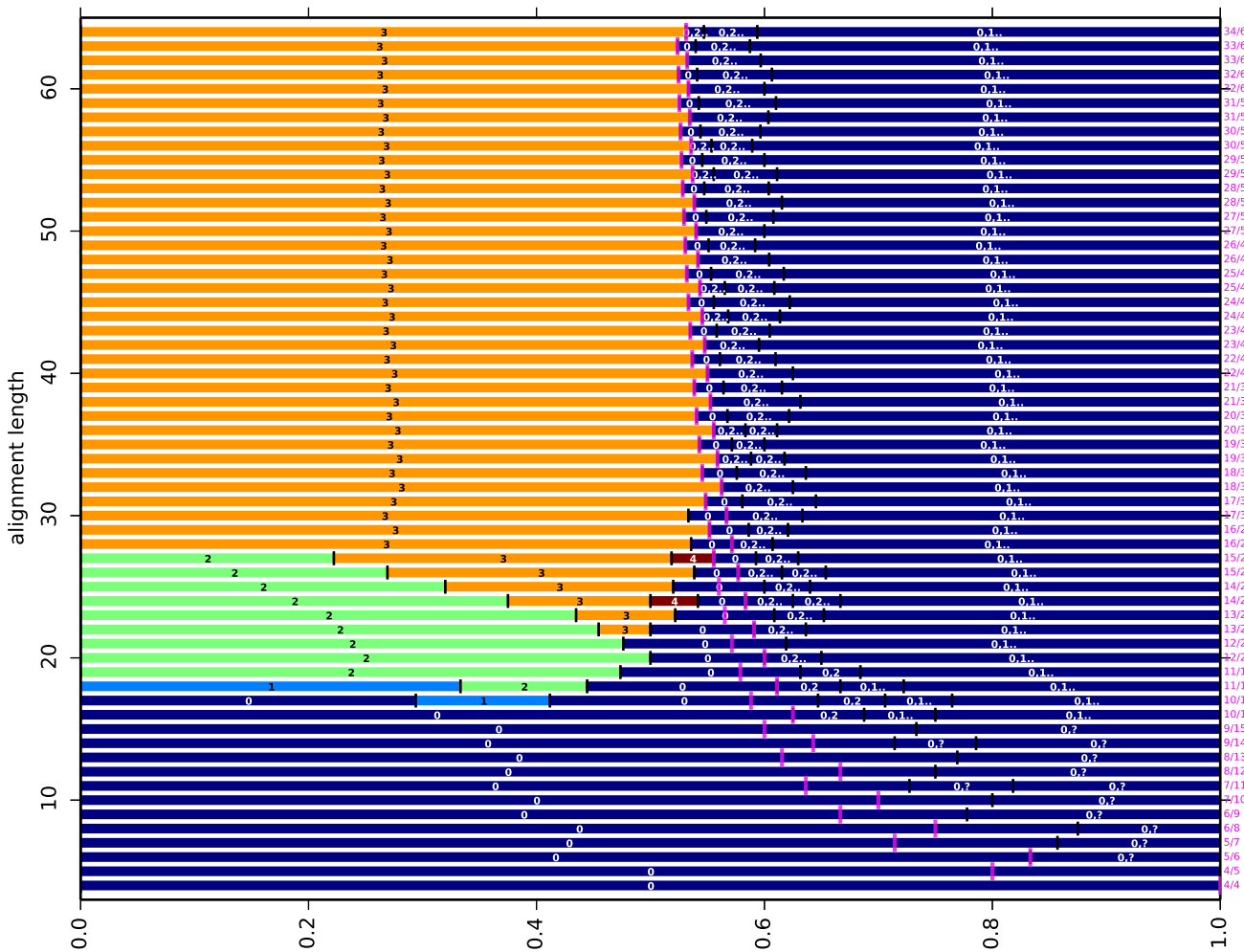
1 = 1011,110001

2 = 1011,100011

3 = 10011,10100001

4 = 1011,1010001

$$\sum_x^1 \text{Heaviside}(n:2,w:3)$$



0 = 111,1011

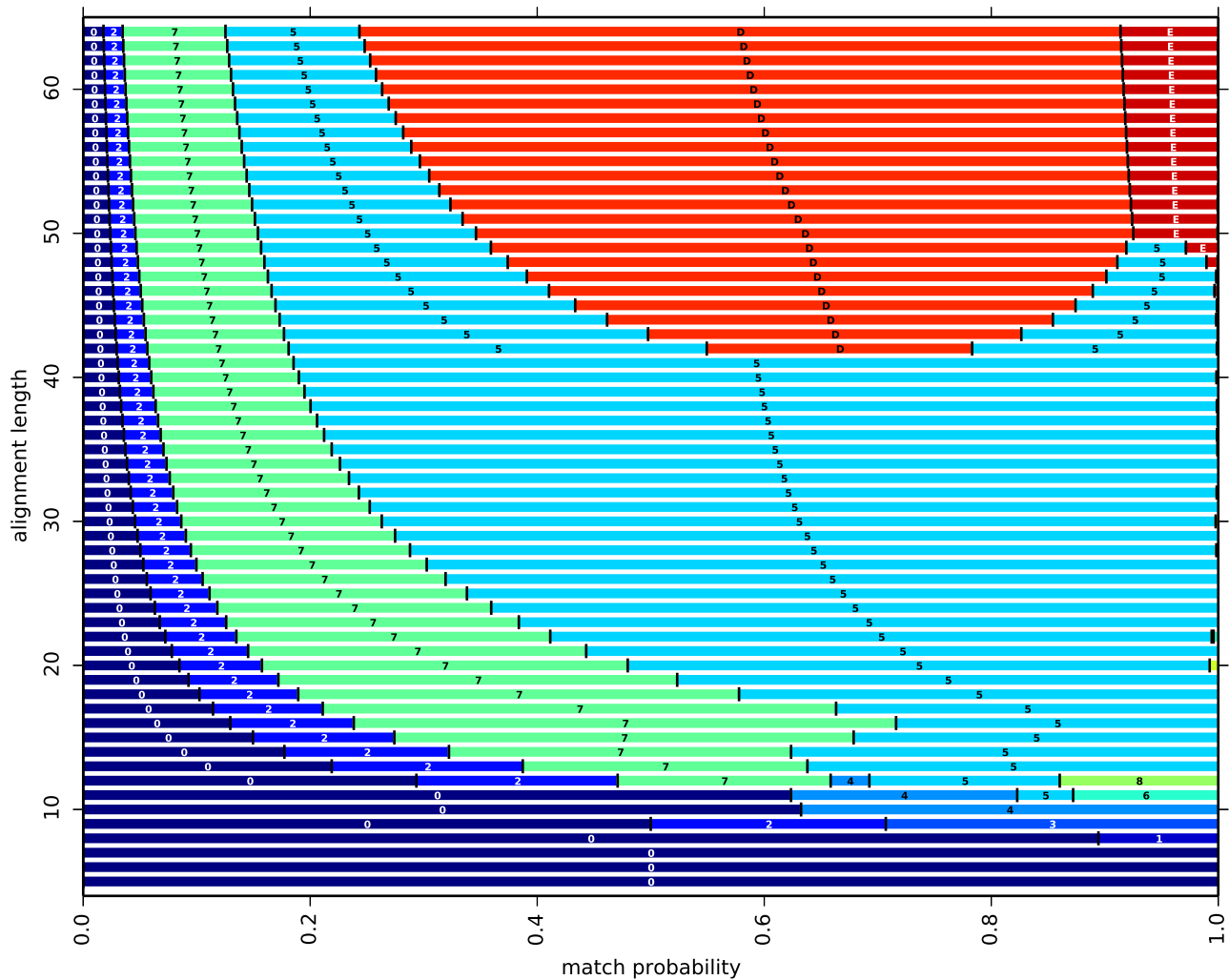
1 = 1011,110001

2 = 1011,100011

3 = 10011,10100001

4 = 1011,1010001

Bernoulli (n:2,w:4)



0 = 1111,110011
1 = 100111,1101001

2 = 1111,110011
3 = 11011,1100011

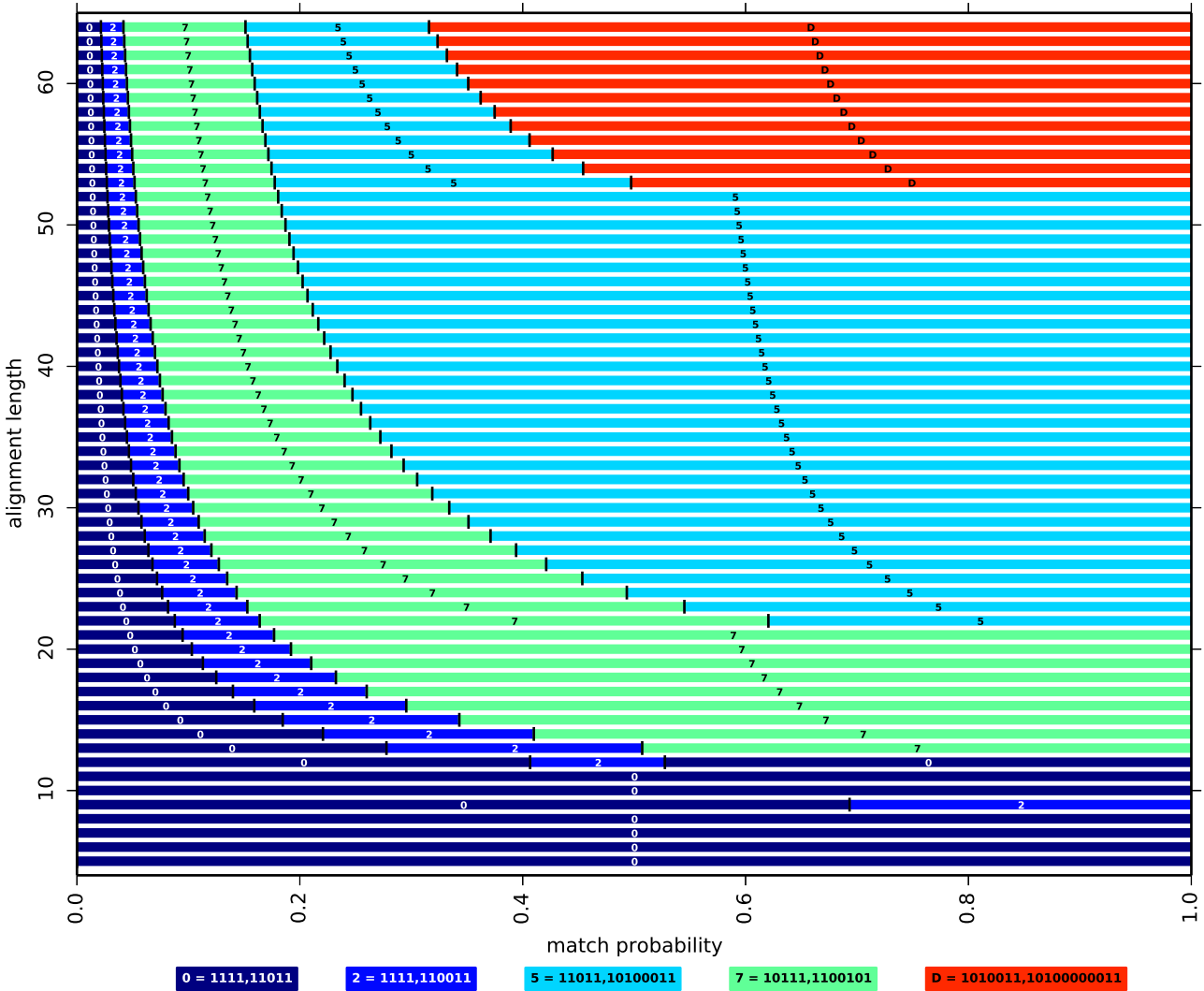
4 = 11011,11000011
5 = 11011,10100011

6 = 11011,110000011
7 = 10111,1100101

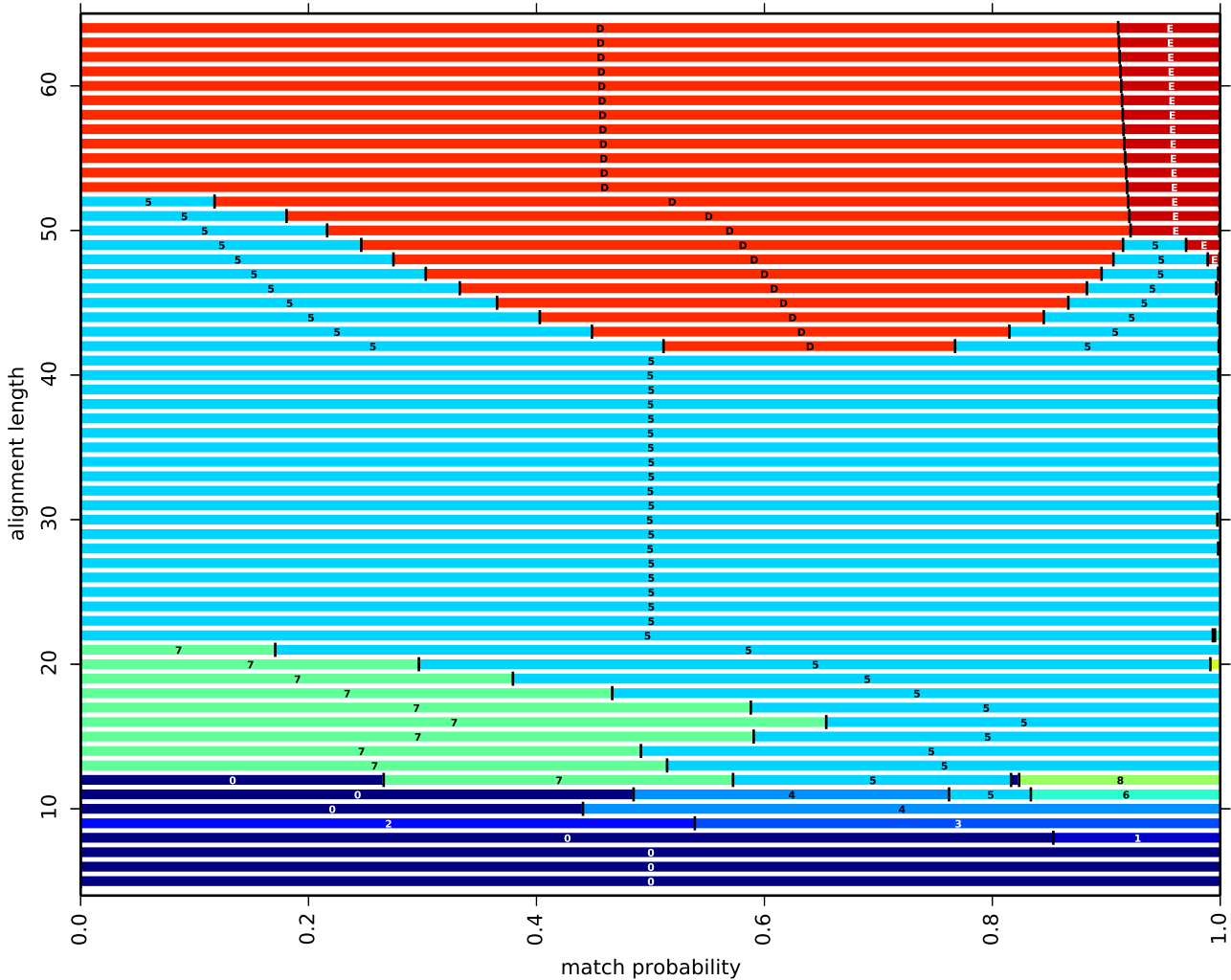
8 = 101011,11000011
D = 1010011,10100000011

E = 1010011,10100001001

\int_0^x Hit Integration (n:2,w:4)



\int_x^1 Hit Integration (n:2,w:4)



0 = 1111,11011
1 = 100111,1101001

2 = 1111,110011
3 = 11011,1100011

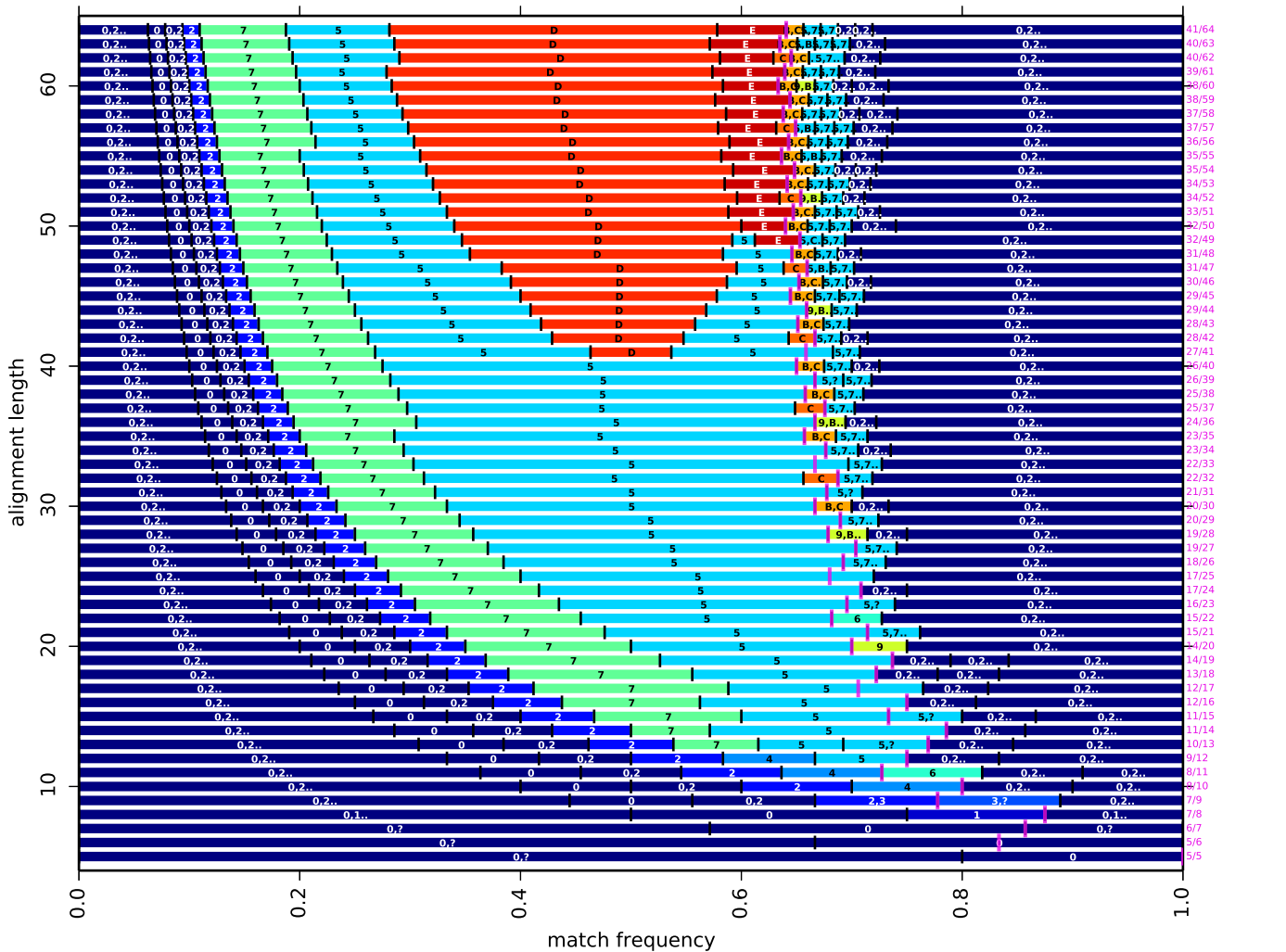
4 = 11011,11000011
5 = 11011,10100011

6 = 11011,110000011
7 = 10111,1100101

8 = 101011,11000011
D = 1010011,10100000011

E = 1010011,10100001001

Dirac (n:2,w:4)



0 = 1111,11011
 1 = 100111,1101001
 2 = 1111,110011

3 = 11011,1100011
 4 = 11011,11000011
 5 = 11011,10100011

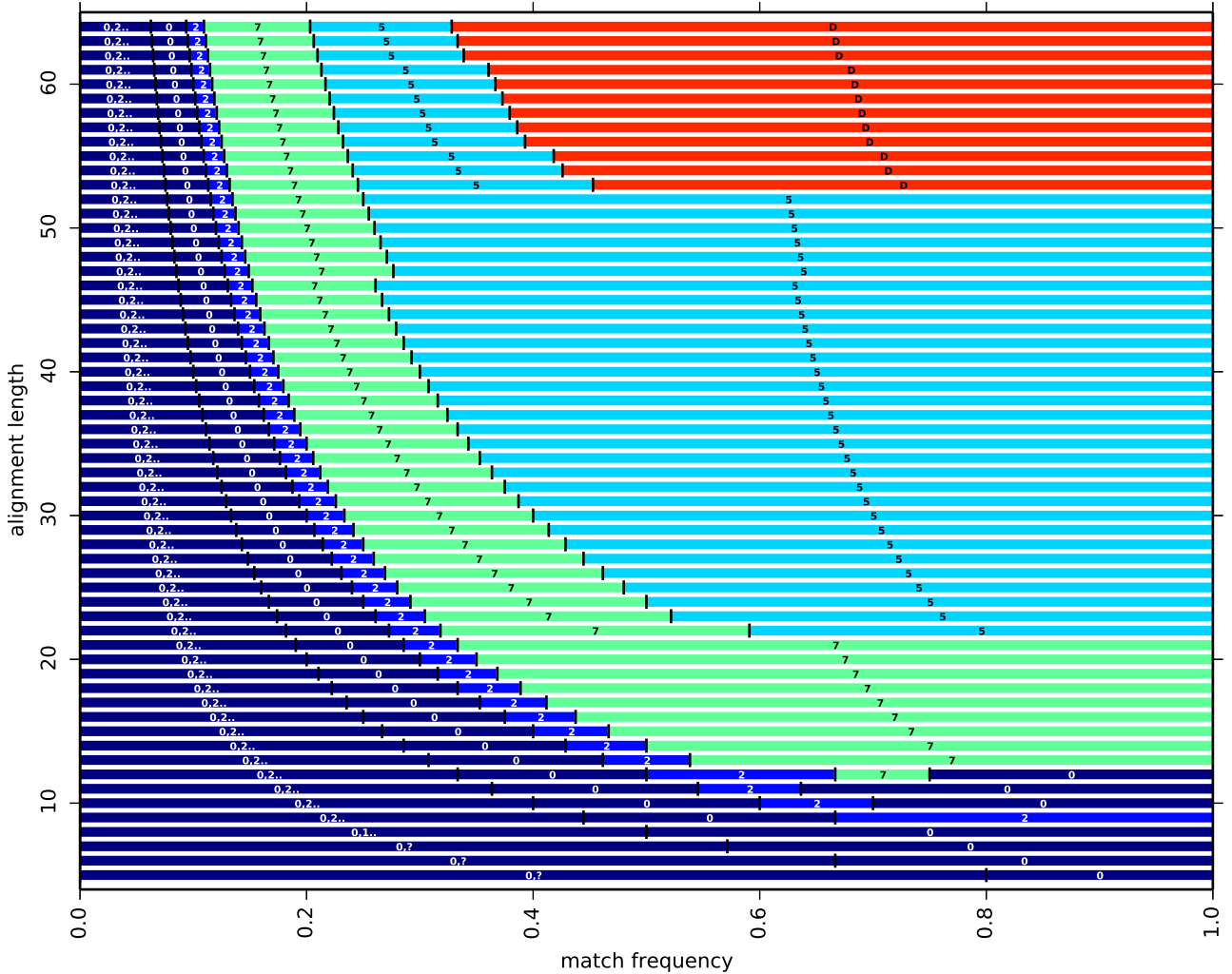
6 = 11011,110000011
 7 = 10111,1100101
 8 = 101011,11000011

9 = 10111,11001001
 A = 11011,101000011
 B = 10111,101001001

C = 10111,100100101
 D = 1010011,10100000011

E = 1010011,10100001001
 F = 10111,100100100001

$$\sum_0^x \text{Heaviside}(n:2,w:4)$$



0 = 1111,11011
 1 = 100111,1101001
 2 = 1111,110011

3 = 11011,1100011
 4 = 11011,11000011
 5 = 11011,10100011

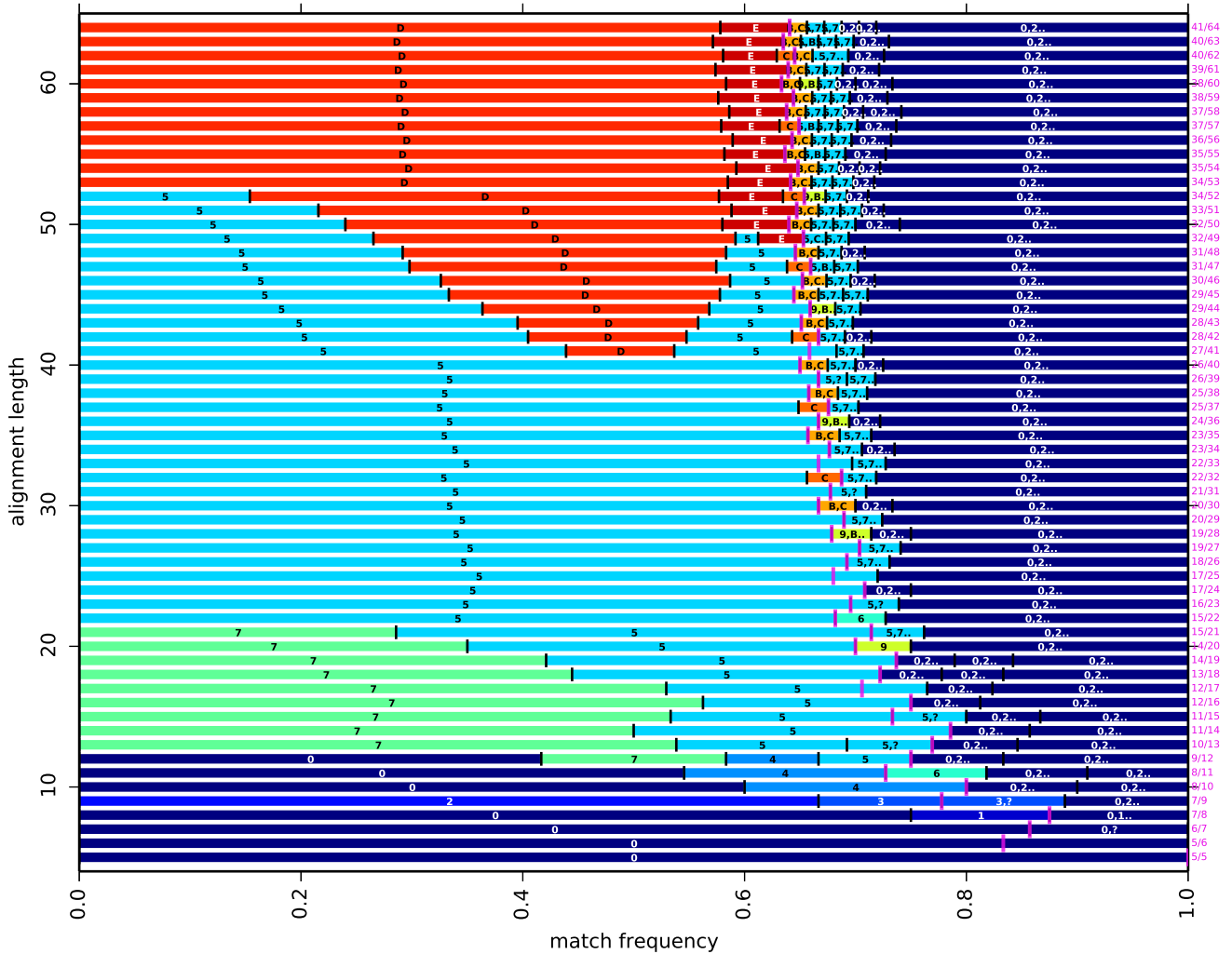
6 = 11011,110000011
 7 = 11011,1100101
 8 = 101011,11000011

9 = 10111,11001001
 A = 11011,101000011
 B = 10111,101001001

C = 10111,100100101
 D = 1010011,10100000011

E = 1010011,10100001001
 F = 10111,100100100001

$$\sum_x^1 \text{Heaviside}(n:2,w:4)$$



0 = 1111,11011
 1 = 100111,1101001
 2 = 1111,110011

3 = 11011,1100011
 4 = 11011,11000011
 5 = 11011,10100011

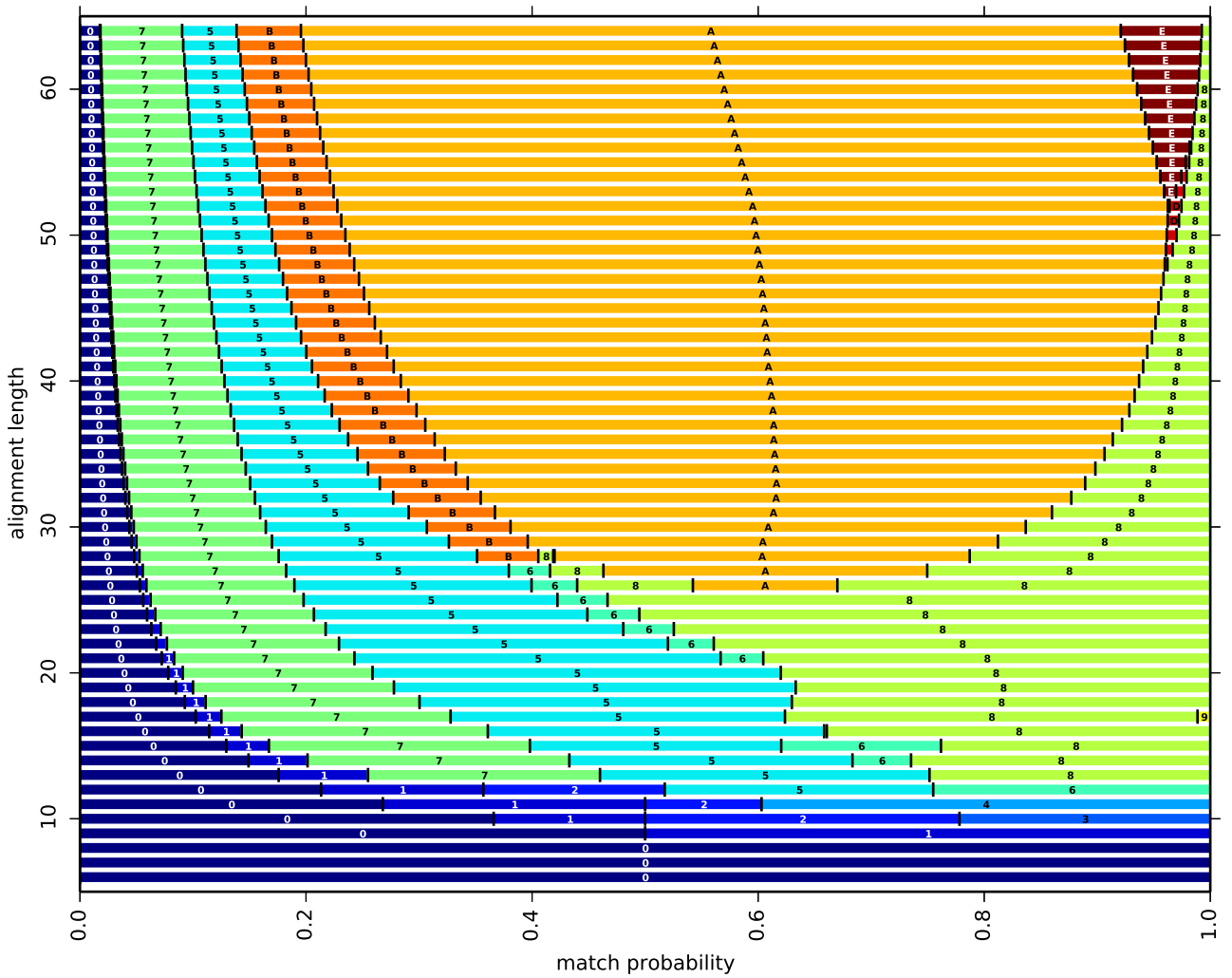
6 = 11011,110000011
 7 = 11011,1100101
 8 = 101011,11000011

9 = 10111,11001001
 A = 11011,101000011
 B = 10111,101001001

C = 10111,100100101
 D = 1010011,10100000011

E = 1010011,10100001001
 F = 10111,100100100001

Bernoulli (n:2,w:5)



0 = 11111,110111
 1 = 11111,1101011
 2 = 101111,1110011

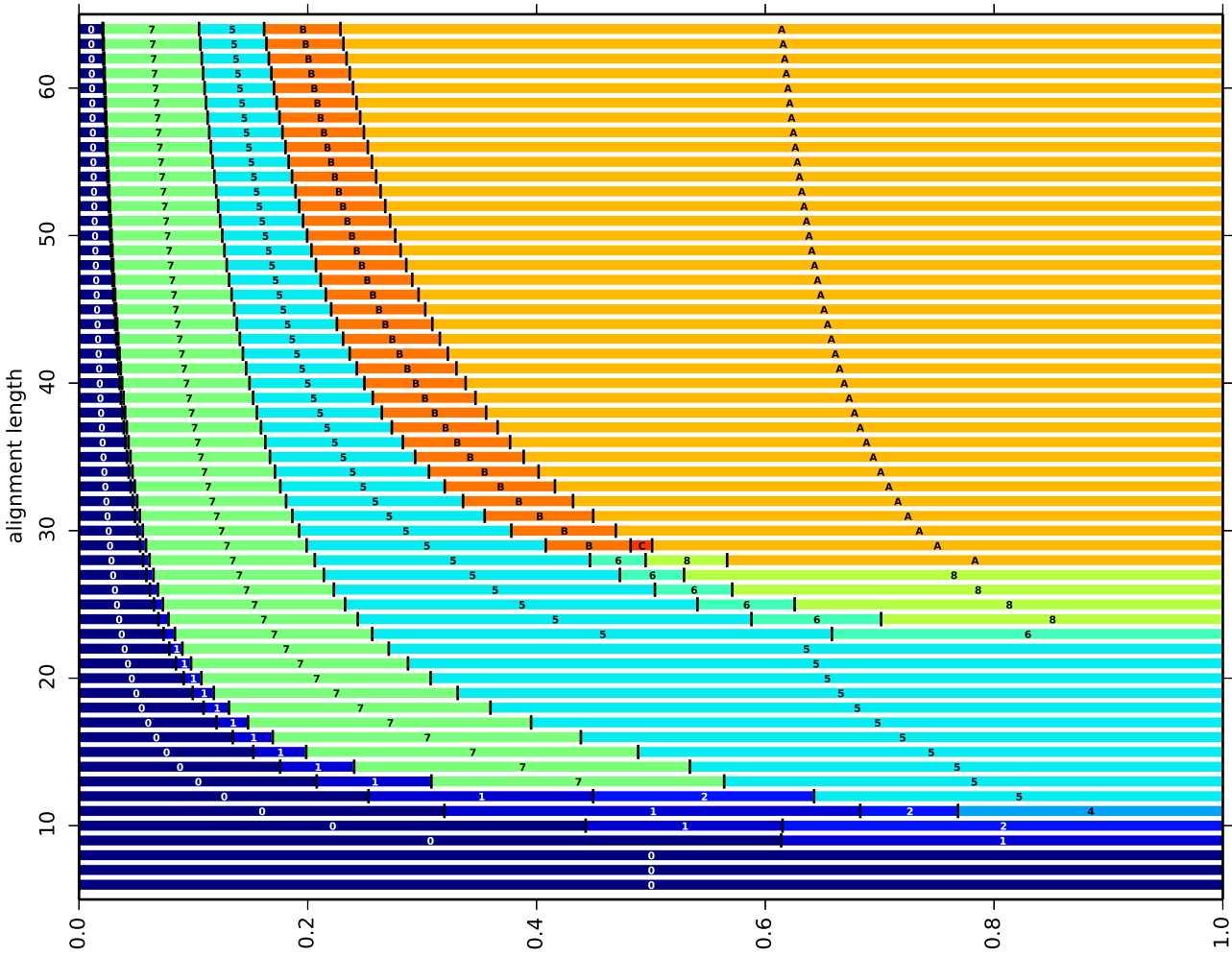
3 = 110111,11100011
 4 = 110111,11001011
 5 = 110111,11010011

6 = 110111,110001011
 7 = 110111,1111001
 8 = 110111,1101000011

9 = 101000111,11100000101
 A = 1101011,10100010011
 B = 1101011,110010011

D = 1011101,101100011
 E = 10110011,101010000011

\int_0^x Hit Integration (n:2,w:5)



0 = 11111,110111
 1 = 11111,1101011
 2 = 101111,1110011

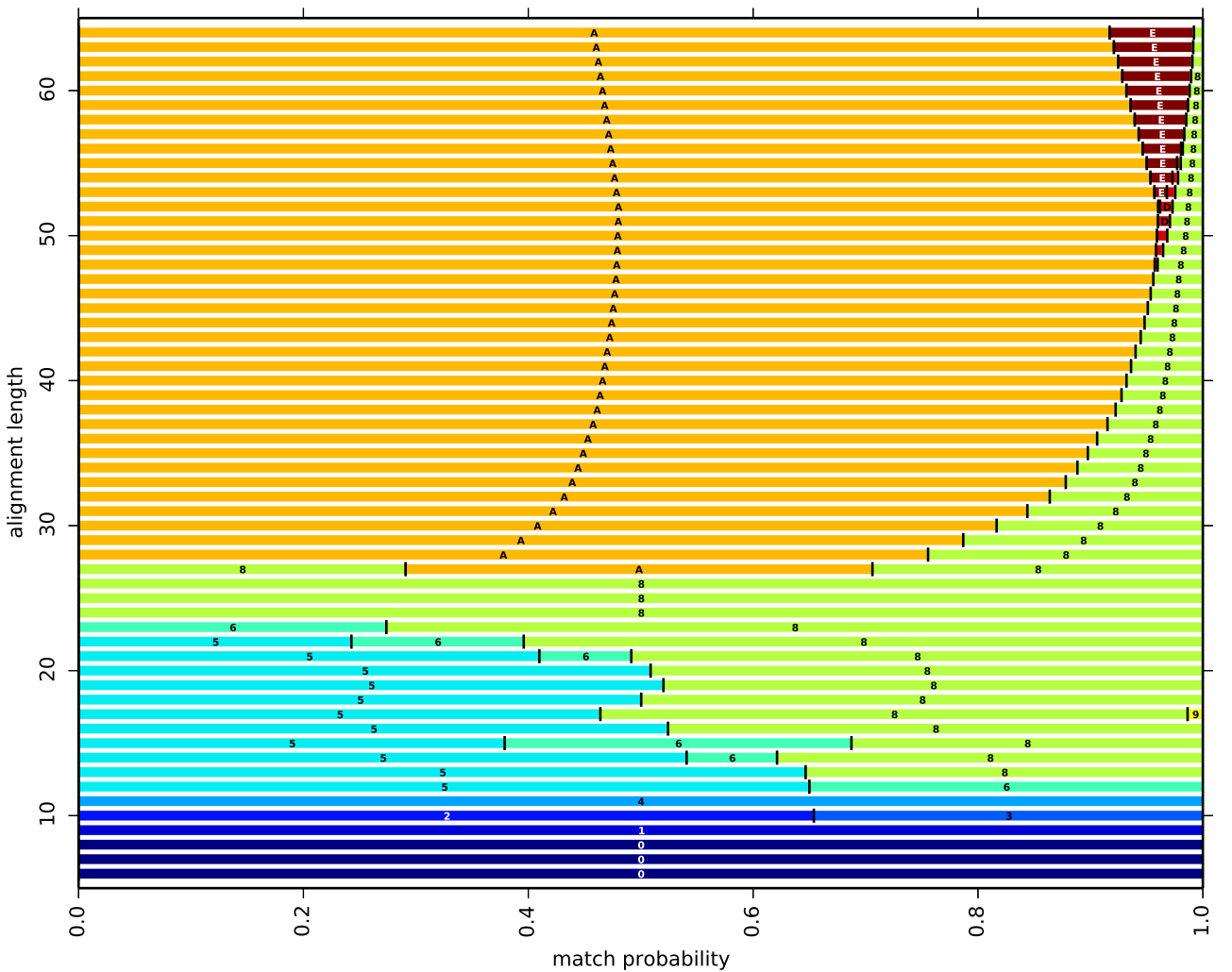
4 = 110111,11001011
 5 = 110111,11010011

6 = 110111,110001011
 7 = 110111,11111001

8 = 110111,1101000011
 A = 1101011,10100010011

B = 1101011,110010011
 C = 110111,1101000101

\int_x^1 Hit Integration (n:2,w:5)



0 = 11111,110111
 1 = 11111,1101011
 2 = 101111,1110011

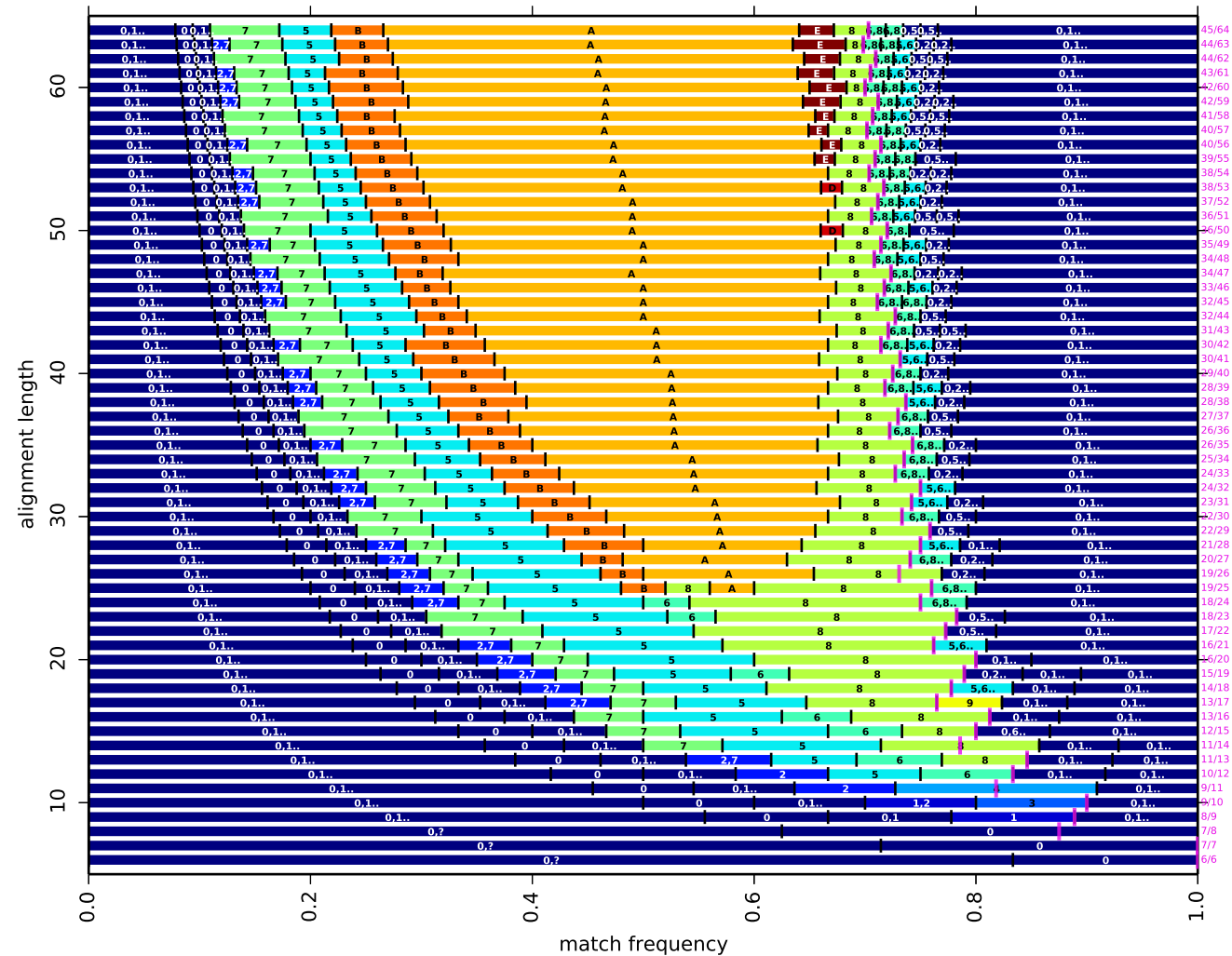
3 = 110111,11100011
 4 = 110111,11001011
 5 = 110111,11010011

6 = 110111,110001011
 8 = 110111,1101000011

9 = 101000111,111000000101
 A = 1101011,10100010011

D = 1011101,101100011
 E = 10110011,101010000011

Dirac (n:2,w:5)



0 = 11111,110111
 1 = 11111,1101011
 2 = 101111,1110011

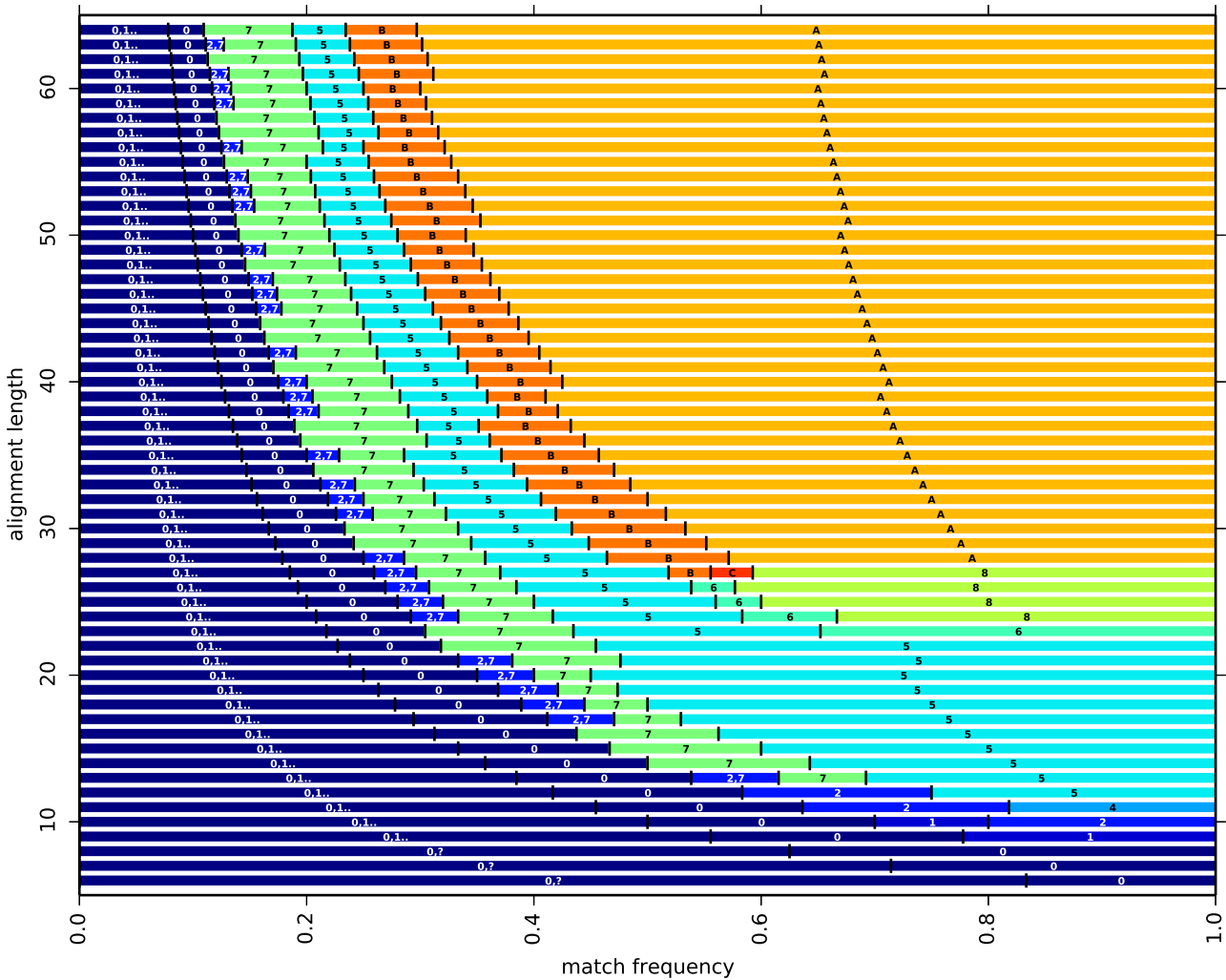
3 = 110111,11100011
 4 = 110111,11001011
 5 = 110111,11010011

6 = 110111,110001011
 7 = 110111,11111001
 8 = 110111,1101000011

9 = 101000111,111000000101
 A = 1101011,10100010011
 B = 1101011,110010011

C = 110111,1101000101
 D = 1011101,101100011
 E = 10110011,10101000011

$$\sum_0^x \text{Heaviside}(n:2,w:5)$$



0 = 11111,110111
 1 = 11111,1101011
 2 = 101111,1110011

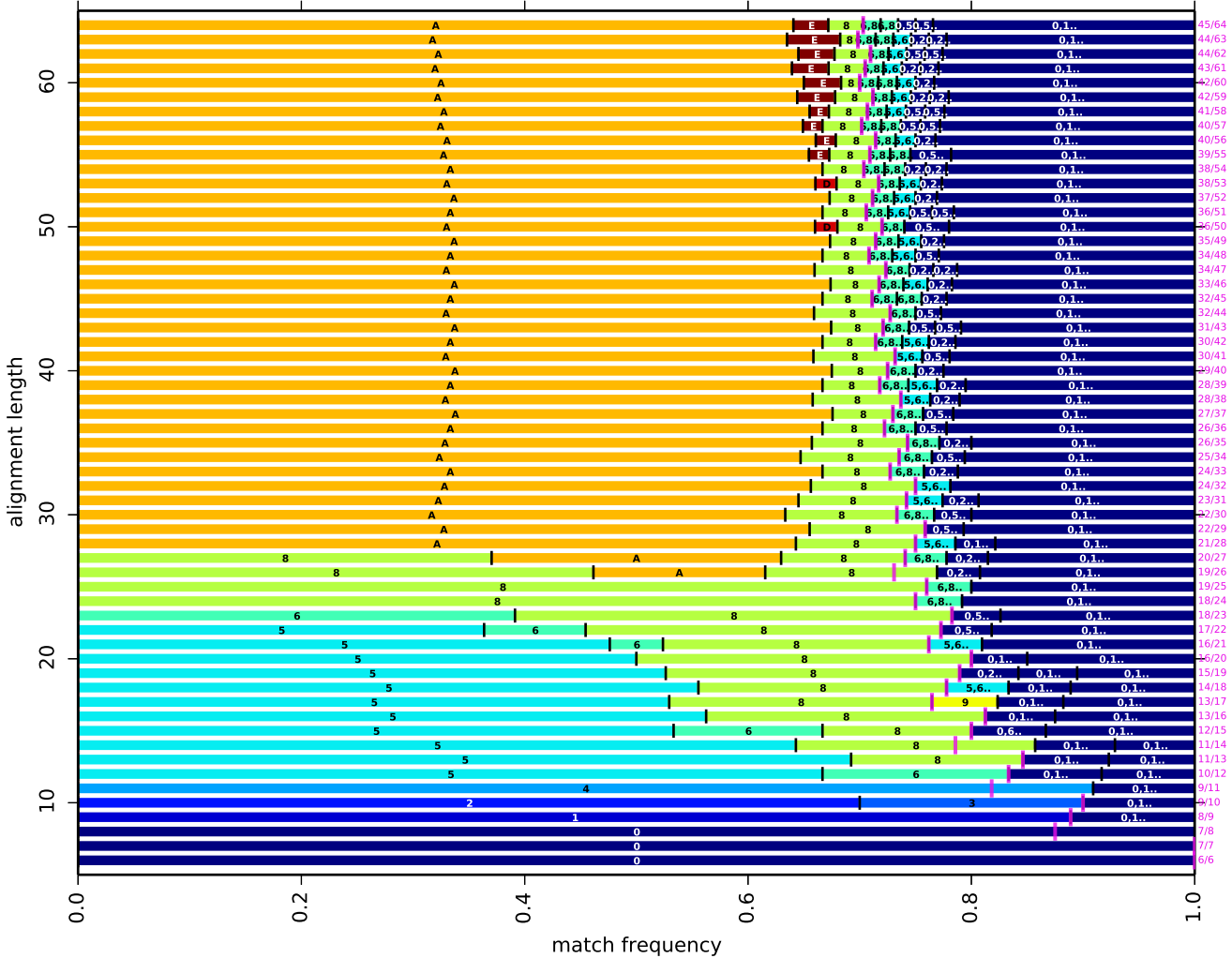
3 = 110111,11100011
 4 = 110111,11001011
 5 = 110111,11010011

6 = 110111,110001011
 7 = 110111,1111001
 8 = 110111,1101000011

9 = 101000111,11100000101
 A = 1101011,10100010011
 B = 1101011,110010011

C = 110111,1101000101
 D = 1011101,101100011
 E = 10110011,101010000011

$$\sum_x^1 \text{Heaviside}(n:2,w:5)$$



0 = 11111,110111
 1 = 11111,1101011
 2 = 101111,1110011

3 = 110111,11100011
 4 = 110111,11001011
 5 = 110111,11010011

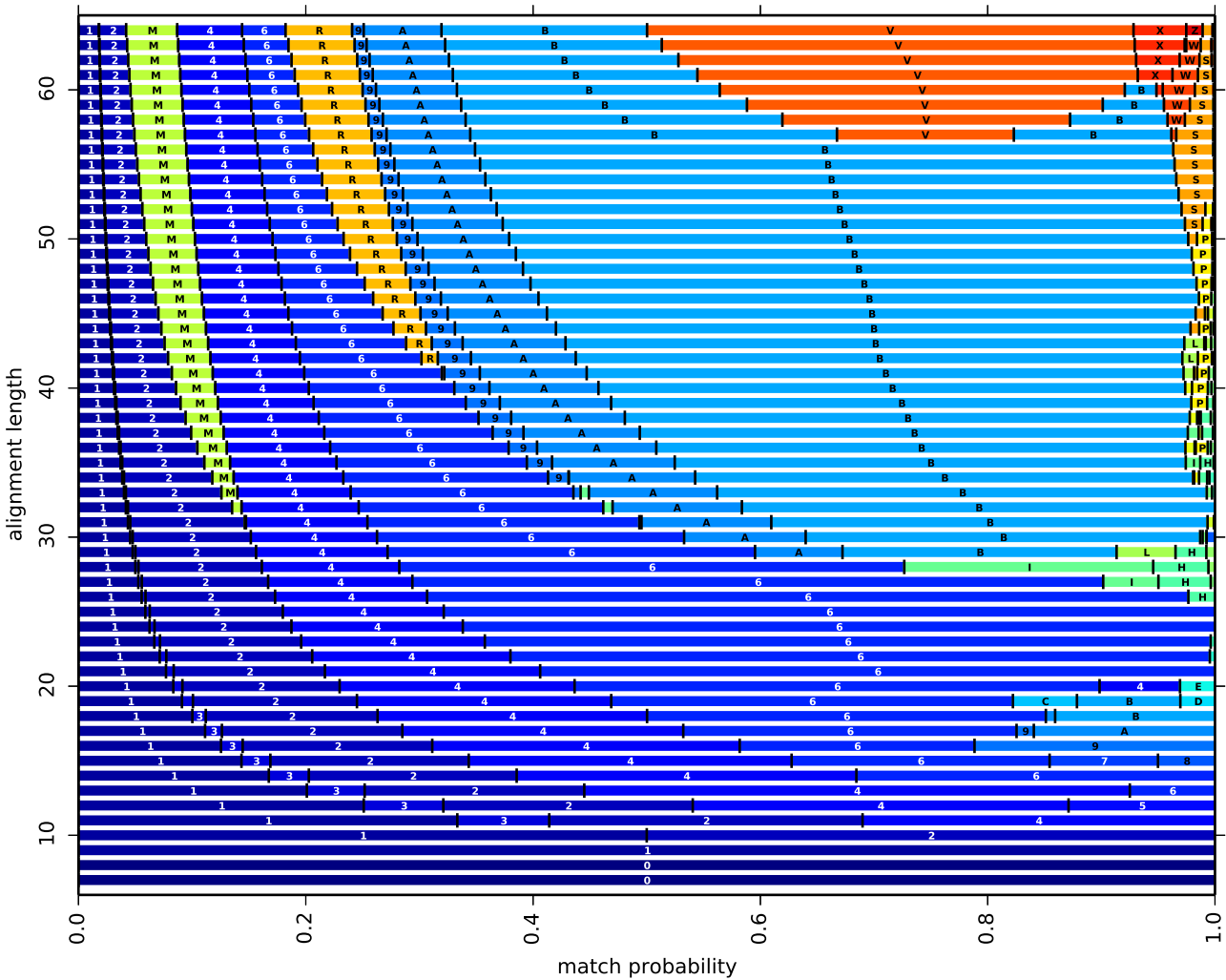
6 = 110111,110001011
 7 = 110111,11111001
 8 = 110111,1101000011

9 = 101000111,111000000101
 A = 1101011,10100010011
 B = 1101011,110010011

C = 110111,1101000101
 D = 1011101,101100011
 E = 10110011,10101000011

45/64
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44/62
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42/60
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19/25
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10/12
9/11
8/10
8/9
7/8
7/7
6/6

Bernoulli (n:2,w:6)



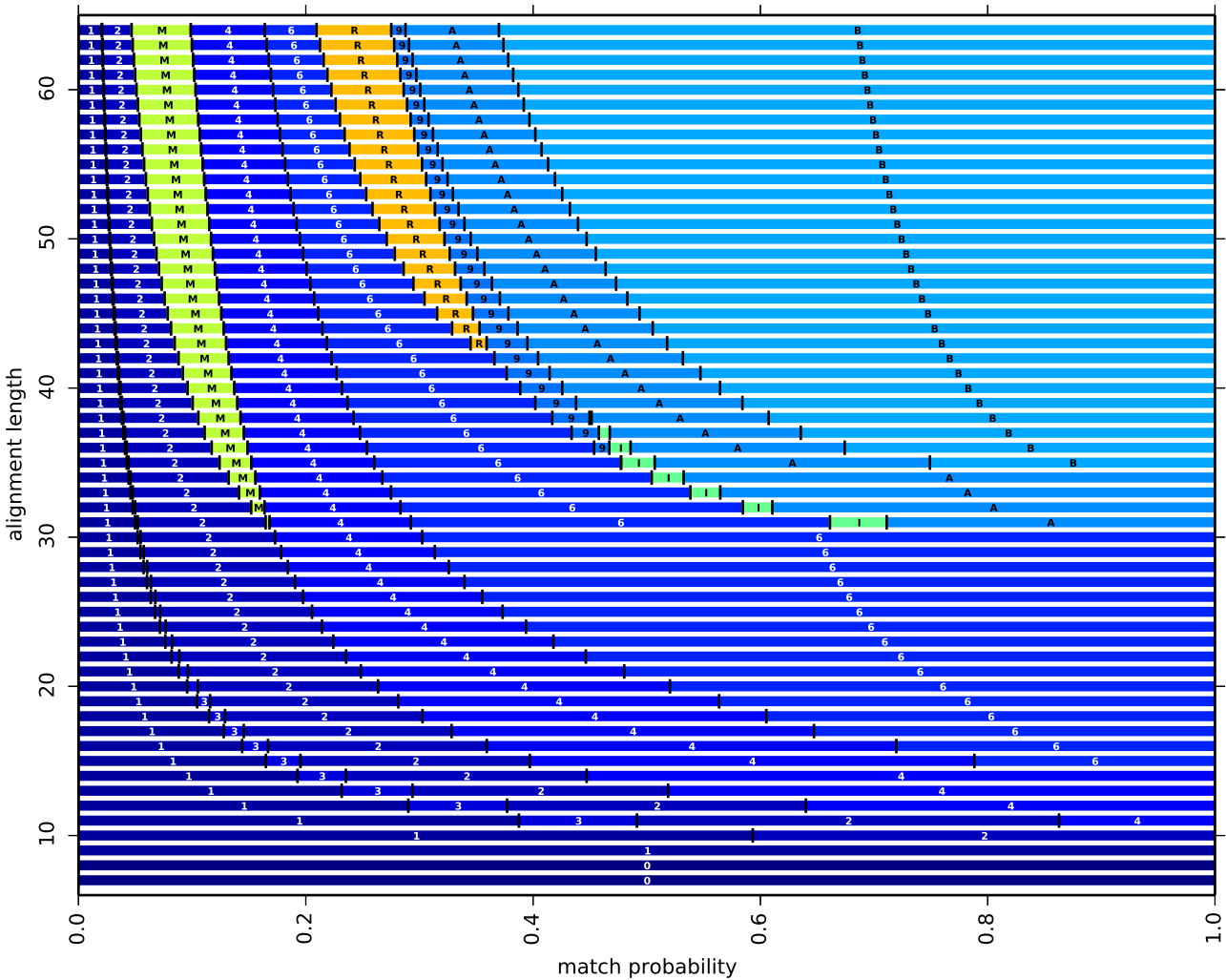
0 = 111111,1101111
 1 = 111111,1110111
 2 = 1101111,11110011
 3 = 1111111,11010111
 4 = 11011111,111010011
 5 = 11011111,1111000101
 6 = 11101111,1101001011

7 = 11101111,11010000111
 8 = 1011001111,11100001011
 9 = 11010111,11100010011
 A = 11010111,110100001011
 B = 11010111,1101000010011
 C = 11101111,11010001011
 D = 11010111,1110000010011

E = 110100111,1101010000011
 H = 11101111,11001001011
 I = 11010111,11100100101
 L = 11010111,101100010011
 M = 10111111,11100111
 P = 11010111,101000100111

R = 10110111,1110001011
 S = 11010111,110001001101
 V = 1100101011,110001000001101
 W = 110100111,110100000100011
 X = 1010110011,10100110000011
 Z = 1010110011,10100100000111

$$\int_0^x \text{Hit Integration (n:2,w:6)}$$



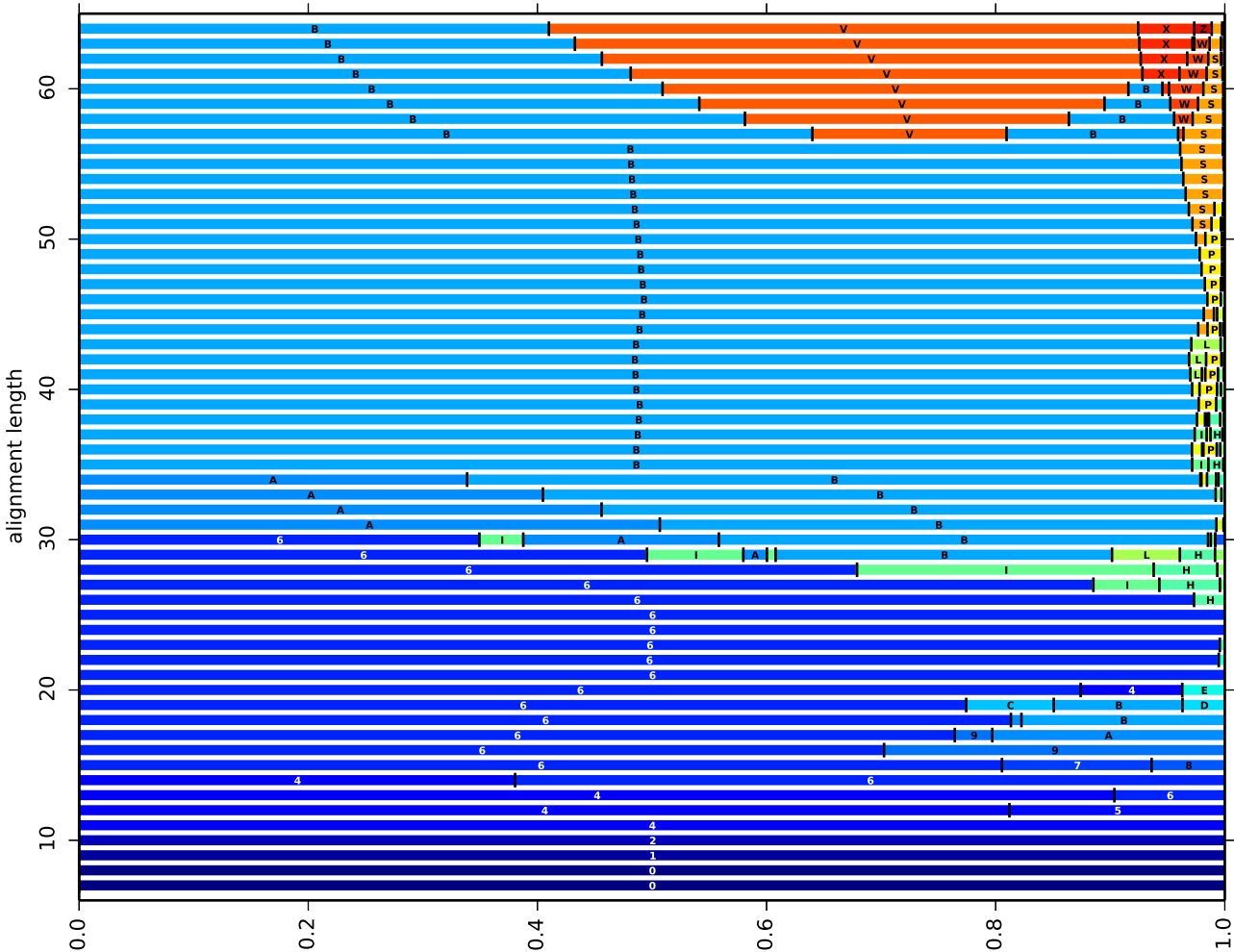
0 = 111111,1101111
 1 = 111111,1110111
 2 = 1101111,11110011

3 = 111111,11010111
 4 = 1101111,111010011
 6 = 1110111,1101001011

9 = 11010111,11100010011
 A = 11010111,110100001011
 B = 11010111,1101000010011

I = 11010111,11100100101
 M = 1011111,11100111
 R = 10110111,1110001011

\int_x^1 Hit Integration (n:2,w:6)



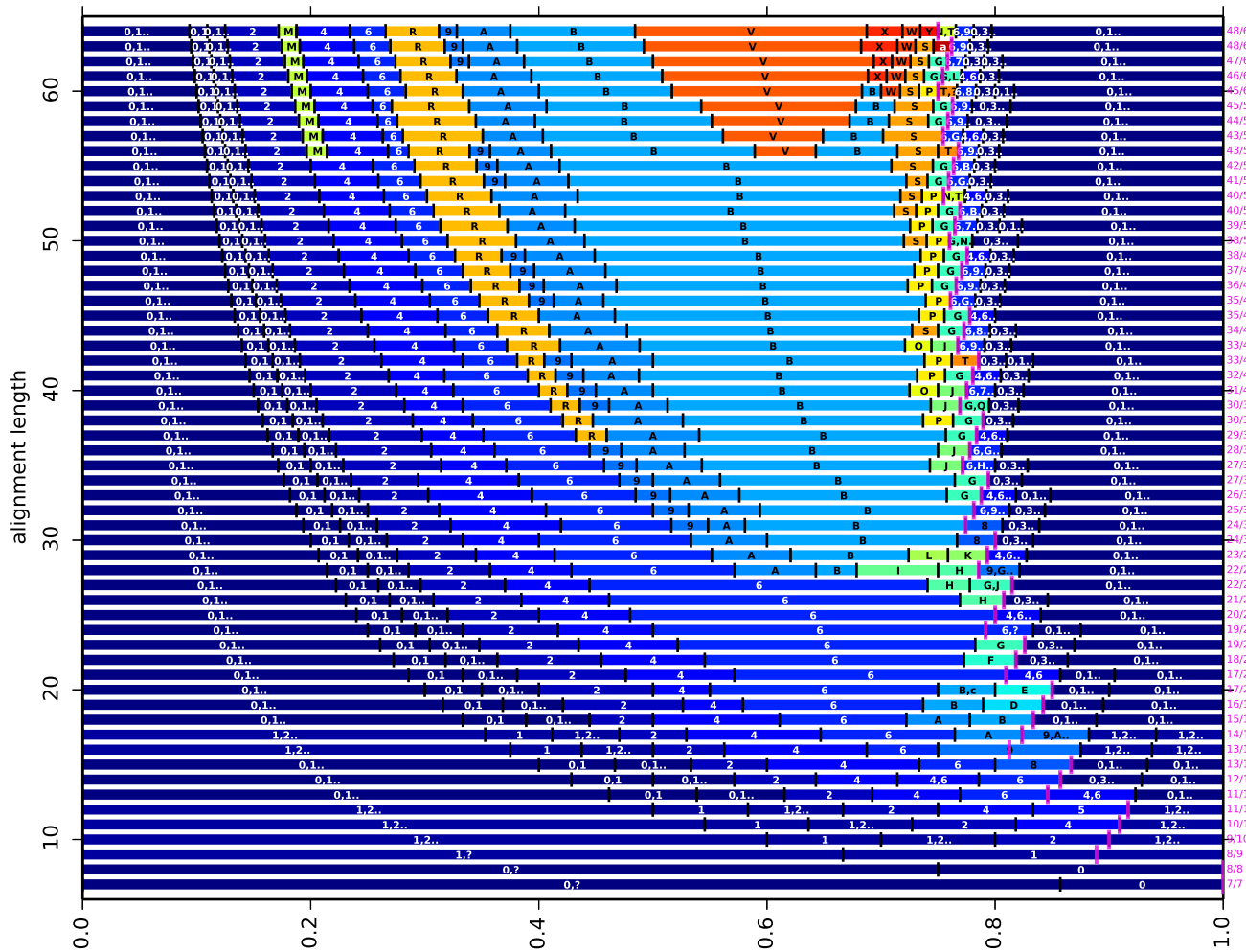
0 = 111111,1101111
 1 = 111111,1110111
 2 = 1101111,11110011
 4 = 1101111,111010011
 5 = 1101111,1111000101
 6 = 1110111,1101001011

7 = 1110111,11010000111
 8 = 101100111,11100001011
 9 = 11010111,11100010011
 A = 11010111,110100001011
 B = 11010111,1101000010011
 C = 1110111,11010001011

D = 11010111,11100000010011
 E = 110100111,11010100000011
 H = 1110111,11001001011
 I = 11010111,11100100101
 L = 11010111,101100010011
 P = 11010111,101000100111

S = 11010111,110001001101
 V = 1100101011,110001000001101
 W = 110100111,110100000100011
 X = 1010110011,10100110000011
 Z = 1010110011,10100100000111

Dirac (n:2,w:6)



```

0 = 111111,1101111
1 = 111111,1110111
2 = 1101111,1110011
3 = 111111,11010111
4 = 1101111,111010011
5 = 1101111,1111000101
6 = 1110111,1101000111
7 = 1110111,1101000111
8 = 101100111,11100001011
9 = 11010111,11100010011

```

```

A = 11010111,110100001011
B = 11010111,1101000010011
C = 11101111,11010001011
D = 11010111,11100000010011
E = 110100111,1101010000011
F = 110100111,11010000000011
G = 1101111,1100010111
H = 1110111,11001001011
I = 11010111,11100100101
J = 1110111,10010010111

```

```

K = 10110111,111000001011
L = 11010111,101100010011
M = 1011111,111001011
N = 11010111,1101100000011
O = 10110111,101001000111
P = 11010111,101000100111
Q = 10110111,11001000111
R = 11101111,1110001011
S = 11010111,110001001101
T = 10110111,110100010101

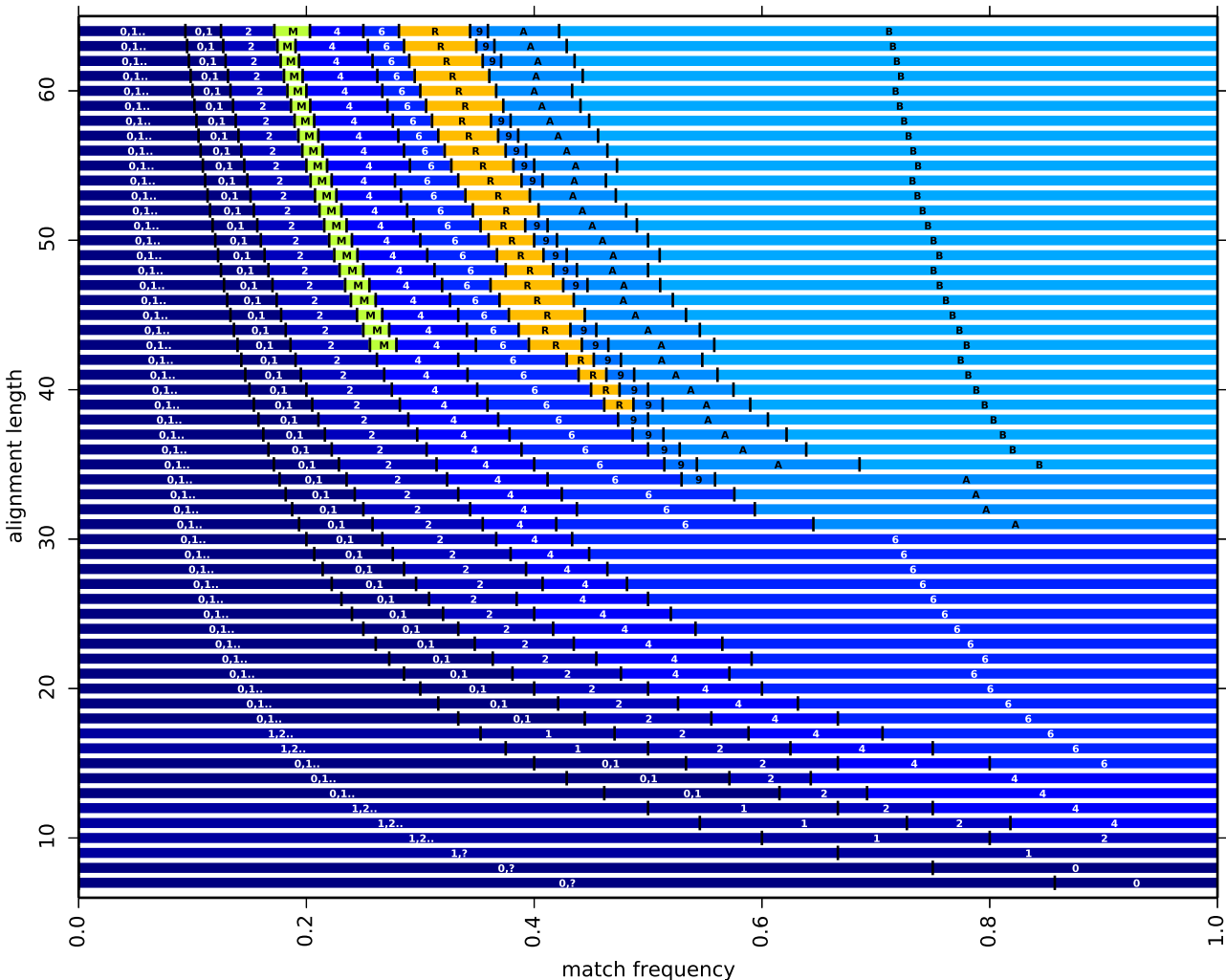
```

```

U = 11010111,110110000101
V = 1100101011,110001000001101
W = 110100111,110100000100011
X = 101110011,10100110000011
Y = 101100111,1011010000011
Z = 1010110011,10100100000111
a = 10110111,1001000111011
b = 101100111,1101000000011
c = 110100111,11010000010011

```

$$\sum_0^x \text{Heaviside}(n:2,w:6)$$



```

0 = 111111,1101111
1 = 111111,1110111
2 = 1101111,11110011
3 = 111111,11010111
4 = 1101111,11010011
5 = 1101111,1111000101
6 = 1110111,1101001011
7 = 1110111,11010000111
8 = 101100111,11100001011
9 = 11010111,11100010011

```

```

A = 11010111,110100001011
B = 11010111,1101000010011
C = 11101111,110100001011
D = 11010111,11100000010011
E = 110100111,1101010000011
F = 110100111,111010000000011
G = 1101111,1100010111
H = 1110111,11001001011
I = 11010111,11100100101
J = 1110111,10010010111

```

```

K = 10110111,111000001011
L = 11010111,101100010011
M = 1011111,11100111
N = 11010111,1101100000011
O = 10110111,101001000111
P = 11010111,101000100111
Q = 10110111,11001000111
R = 10110111,1110001011
S = 11010111,11000100101
T = 10110111,110100010101

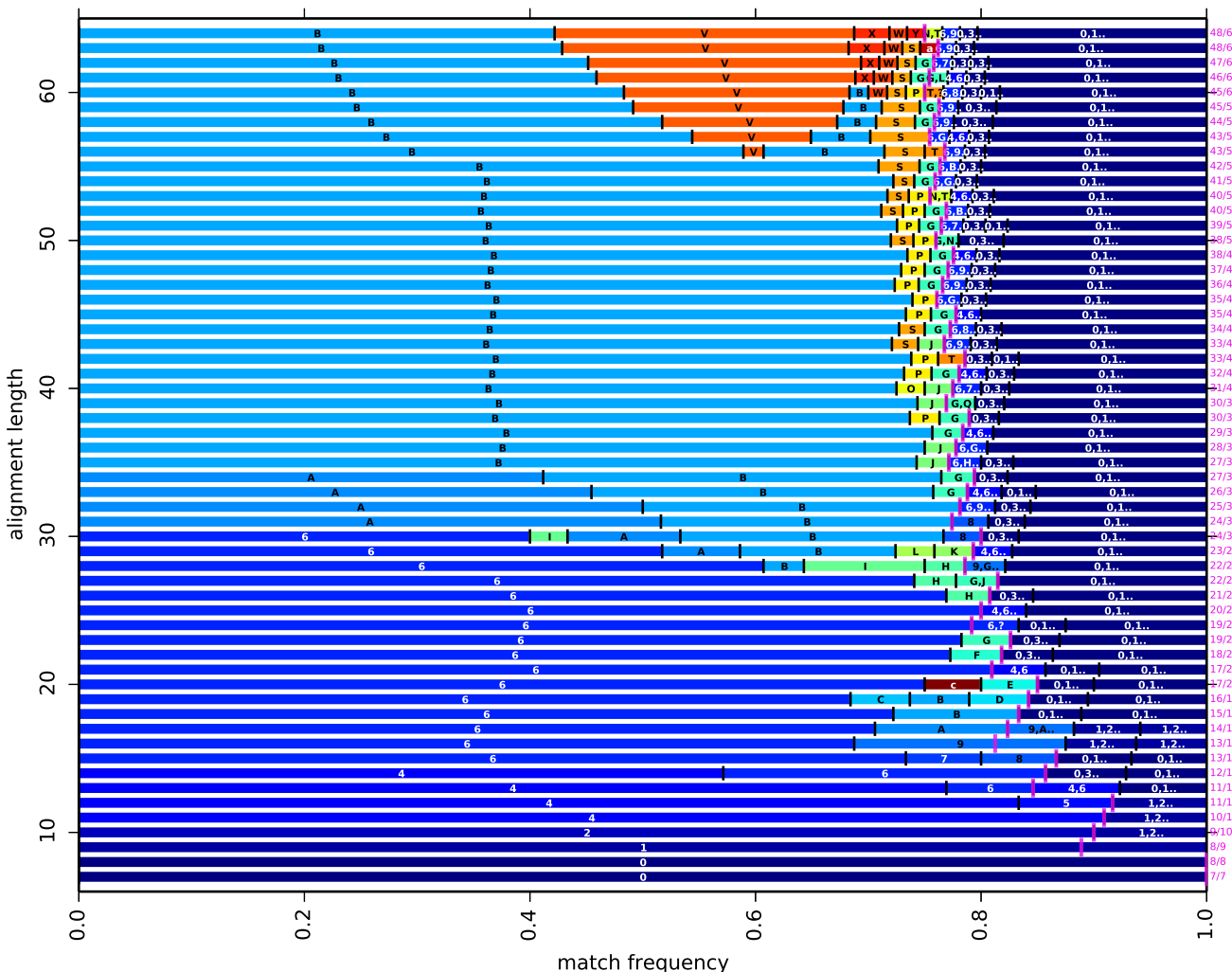
```

```

U = 11010111,110110000101
V = 1100101011,110001000001101
W = 110100111,110100000100011
X = 1010110011,10100110000011
Y = 101100111,1011010000011
Z = 1010110011,10100100000111
a = 10110111,100100011101
b = 101100111,10110100000011
c = 110100111,11010000010011

```

$$\sum_x \text{Heaviside}(n:2,w:6)$$



```

0 = 111111,1101111
1 = 111111,1110111
2 = 1101111,11110011
3 = 111111,11010111
4 = 1101111,111010011
5 = 1101111,1111000101
6 = 1110111,1101001011
7 = 1110111,1101000111
8 = 101100111,11100001011
9 = 11010111,11100010011

```

```

A = 11010111,110100001011
B = 11010111,1101000010011
C = 1110111,110100001011
D = 11010111,11100000010011
E = 110100111,11010100000111
F = 110100111,11010000000011
G = 1101111,1100010111
H = 1110111,11001001011
I = 11010111,11100100101
J = 1110111,10010010111

```

```

K = 10110111,111000001011
L = 11010111,101100010011
M = 1101111,1110010111
N = 11010111,1101100000011
O = 10110111,1010010000111
P = 11010111,101000100111
Q = 10110111,11001000111
R = 10110111,1110001011
S = 11010111,110001001101
T = 10110111,110100010101

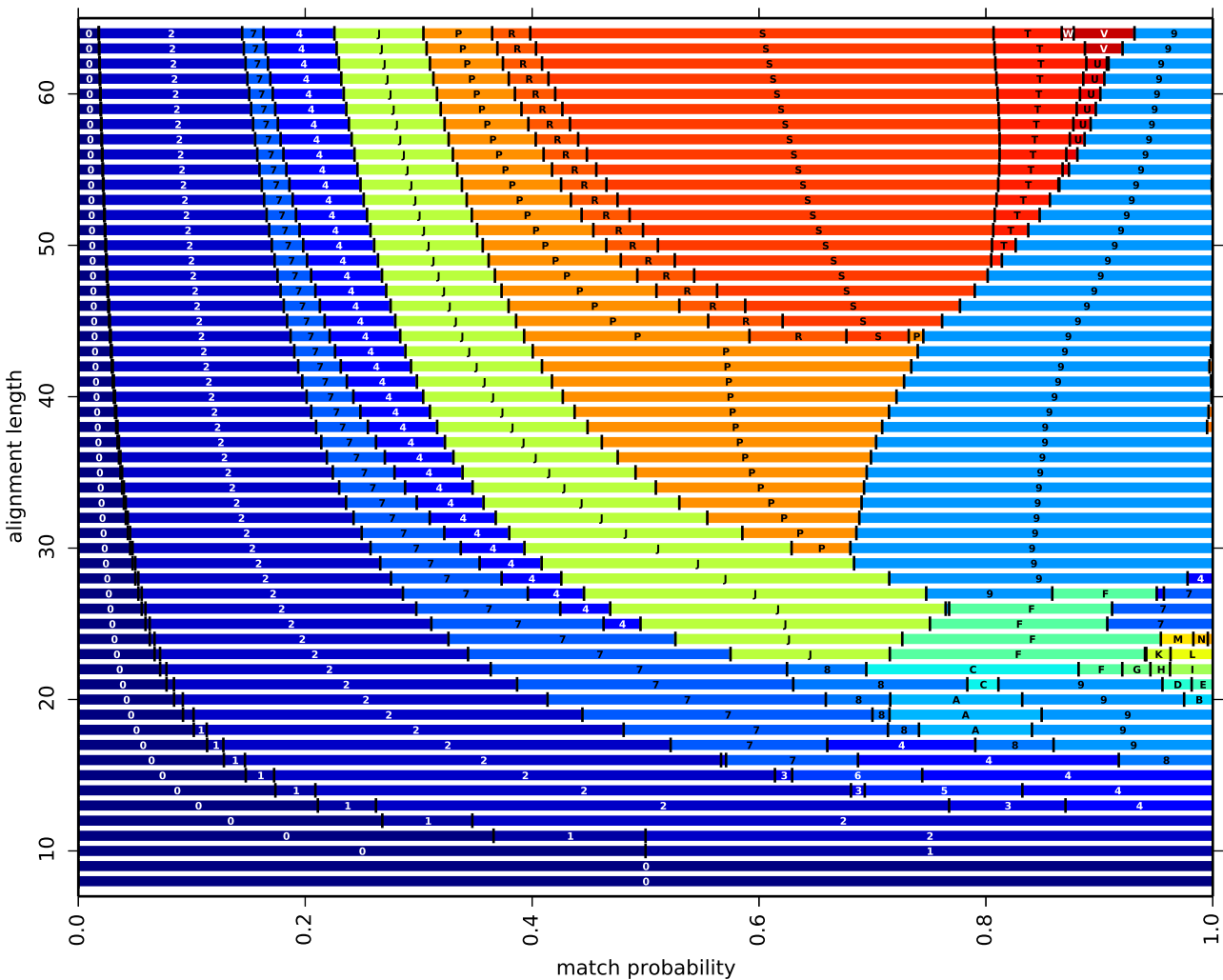
```

```

U = 11010111,110110000101
V = 1100101011,110001000001101
W = 110100111,110100000100011
X = 101010011,10100110000011
Y = 101100111,1011010000011
Z = 1010110011,10100100000111
a = 10110111,100100011101
b = 101100111,10110100000011
c = 110100111,11010000010011

```

Bernoulli (n:2,w:7)



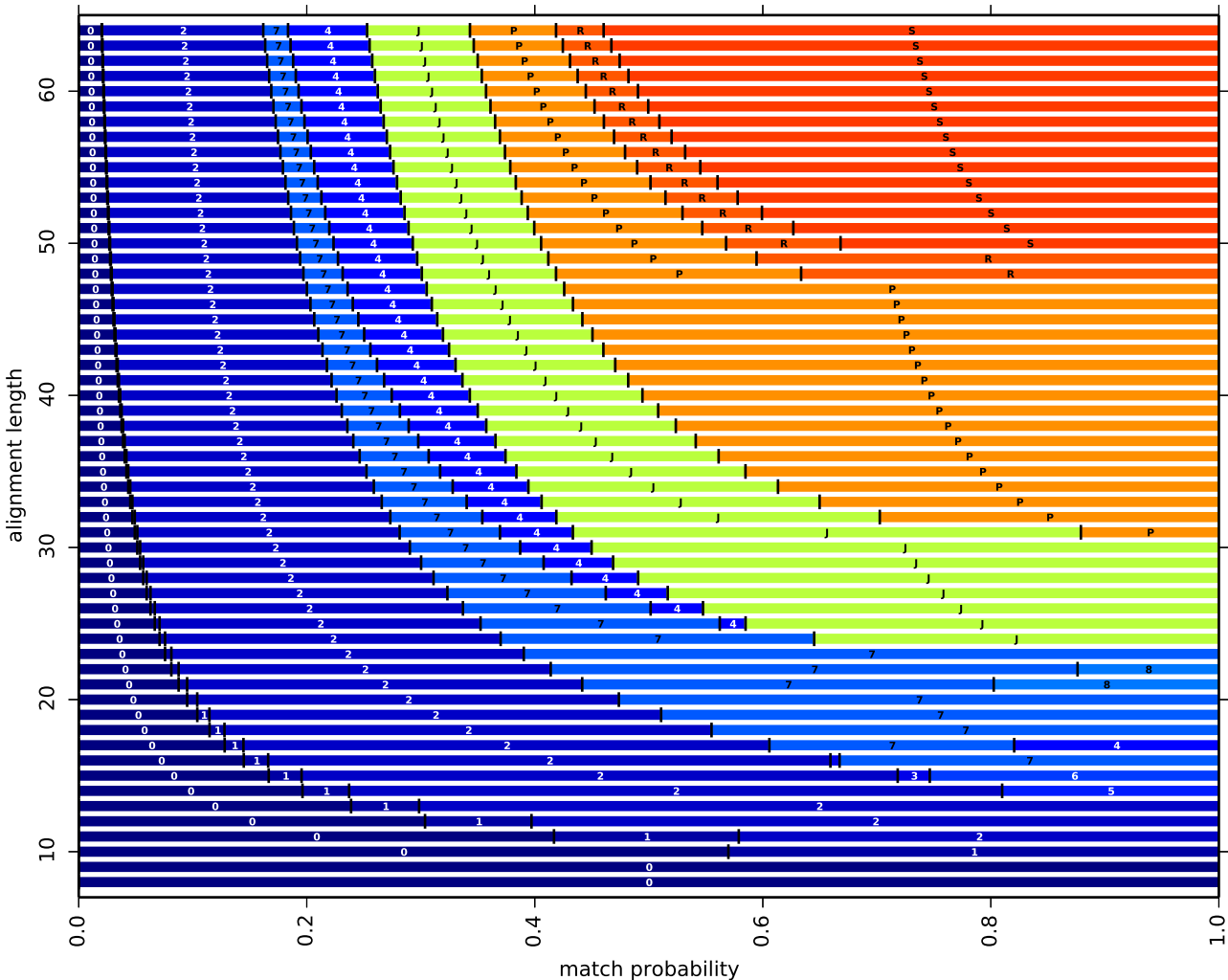
0 = 1111111,11101111
 1 = 1111111,111010111
 2 = 1101111,111101011
 3 = 1110111,1111010011
 4 = 11010111,11110010011
 5 = 11101111,1110010111
 6 = 11101111,11100100111
 7 = 11101111,11010010111

8 = 11101111,111010001011
 9 = 110101111,1110001001101
 A = 11010111,111010000111
 B = 111010111,11010000100111
 C = 11010111,1110001000111
 D = 11010100111,111000001001101
 E = 110100010111,11100100001011
 F = 11010111,1101001000111

G = 1110010111,1110010000001011
 H = 1110010111,1110010000010011
 I = 1110010111,1100010000010111
 J = 11010111,111000101011
 K = 1110010111,11100100000000111
 L = 1110010111,11100000000010111
 M = 1110010111,11100100000010011
 N = 1110010111,11000010000010111

P = 110101011,111001001011
 R = 110101011,11100001001011
 S = 110100011,1101000010001011
 T = 10110001011,1101000010000111
 U = 1110001011,1101010000010011
 V = 10110100011,101001000100000111
 W = 1101010011,101010000010010011

\int_0^x Hit Integration (n:2,w:7)



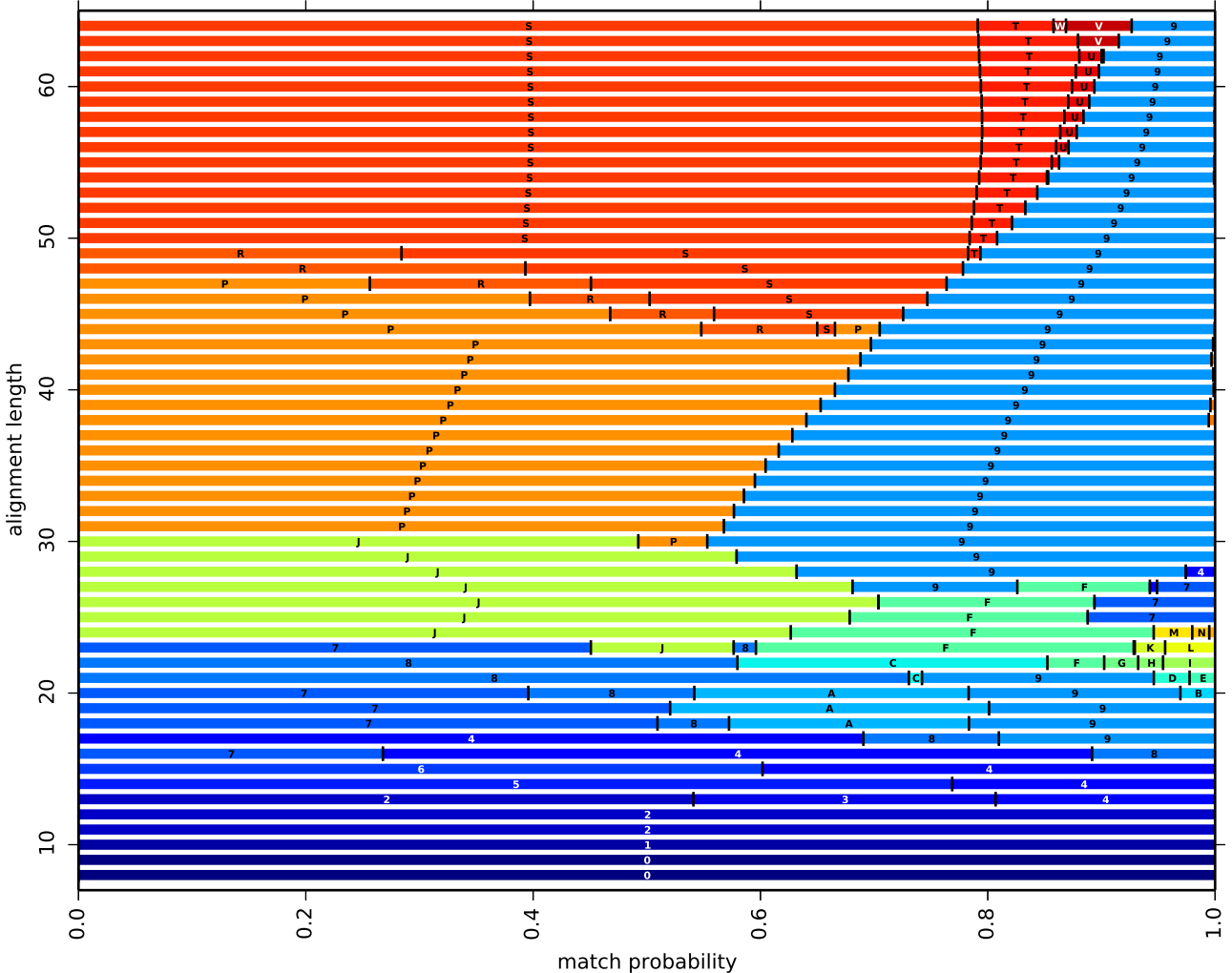
0 = 1111111,11101111
 1 = 1111111,111010111
 2 = 1101111,111101011
 3 = 11101111,1111010011

4 = 110101111,11110010011
 5 = 11101111,1110010111
 6 = 11101111,1110010011

7 = 11101111,11010010111
 8 = 11101111,111010001011
 J = 110110111,111000101011

P = 1101010111,111001001011
 R = 1101010111,11100001001011
 S = 11010100111,110100010001011

\int_x^1 Hit Integration (n:2,w:7)



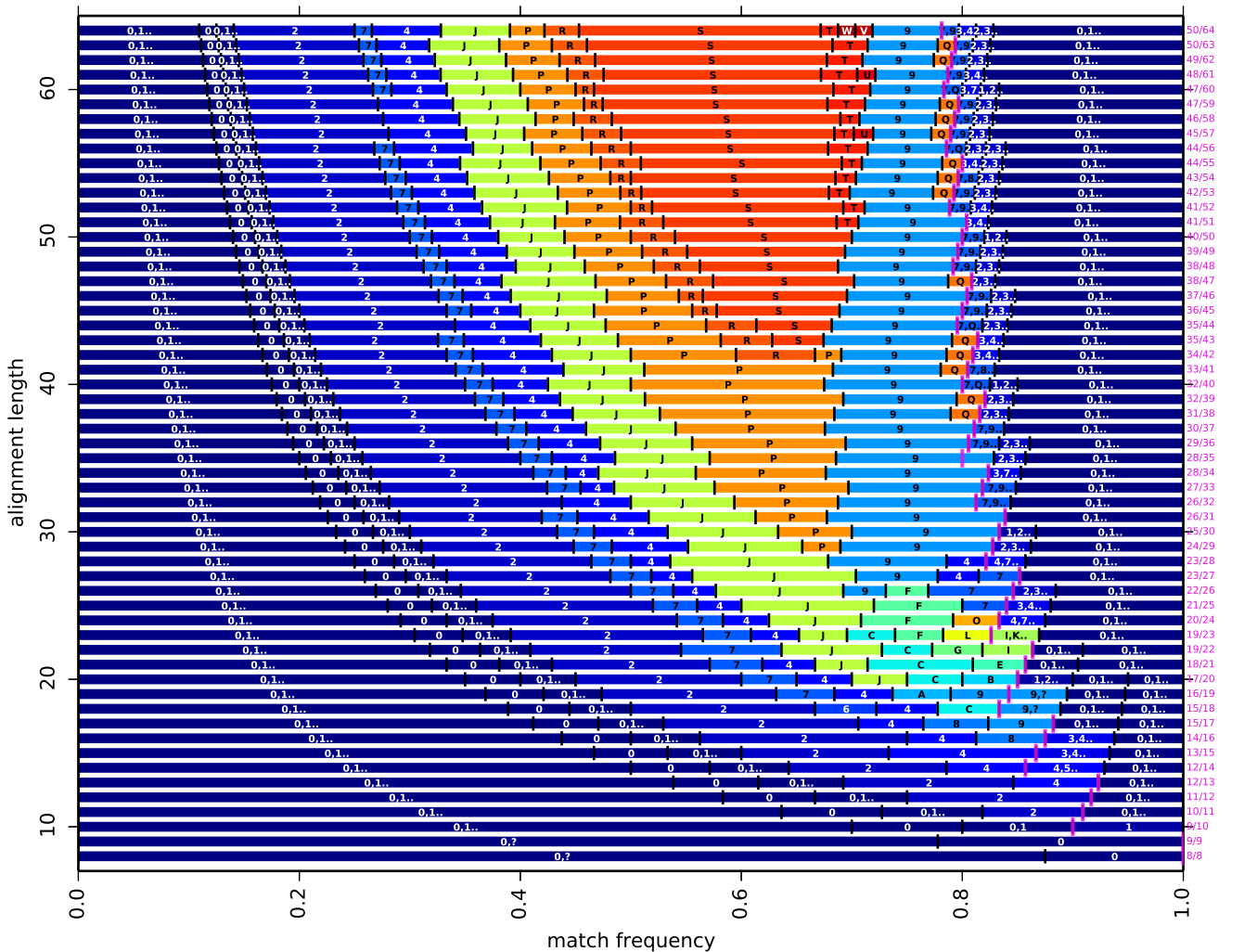
0 = 1111111,11101111
 1 = 1111111,111010111
 2 = 1101111,111101011
 3 = 1110111,1111010011
 4 = 11010111,11110010011
 5 = 11101111,1110010111
 6 = 11101111,11100100111
 7 = 11101111,11010010111

8 = 11101111,111010001011
 9 = 110101111,1110001001101
 A = 110110111,111010000111
 B = 111010111,11010000100111
 C = 110110111,1110001000111
 D = 11010100111,111000001001101
 E = 110100010111,111001000010111
 F = 110110111,1101001000111

G = 1110010111,1110010000001011
 H = 1110010111,1110010000010011
 I = 1110010111,1100010000010111
 J = 110110111,111000101011
 K = 1110010111,11100100000000111
 L = 1110010111,1110000000010111
 M = 1110010111,111001000000100111
 N = 1110010111,11000010000010111

P = 1101010111,111001001011
 R = 1101010111,111000010001011
 S = 11010100111,110100010001011
 T = 10110010111,110100001000111
 U = 1110010111,110100000010011
 V = 10110100011,101001000100000111
 W = 11010100111,10101000001001011

Dirac (n:2,w:7)



```

0 = 1111111,11101111
1 = 1111111,11101011
2 = 11101111,111101011
3 = 11011111,1111010011
4 = 11010111,11110010011
5 = 11101111,1110010111
6 = 11101111,11100100111
7 = 11101111,11010010111
8 = 11101111,111010001011

```

```

9 = 110101111,1110001001101
A = 110110111,111010000111
B = 111010111,11010000100111
C = 110110111,1110001000111
D = 1101010111,111000001001101
E = 110100010111,11100100001011
F = 110110111,1101001000111
G = 1110010111,1110010000001011
H = 1110010111,1110010000010011

```

```

I = 1110010111,1100010000010111
J = 110110111,111000101011
K = 1110010111,1110010000000111
L = 1110010111,11100000000010111
M = 1110010111,11100100000010011
N = 1110010111,11000010000010111
O = 1110010111,111000000000010111
P = 1101010111,111001001011

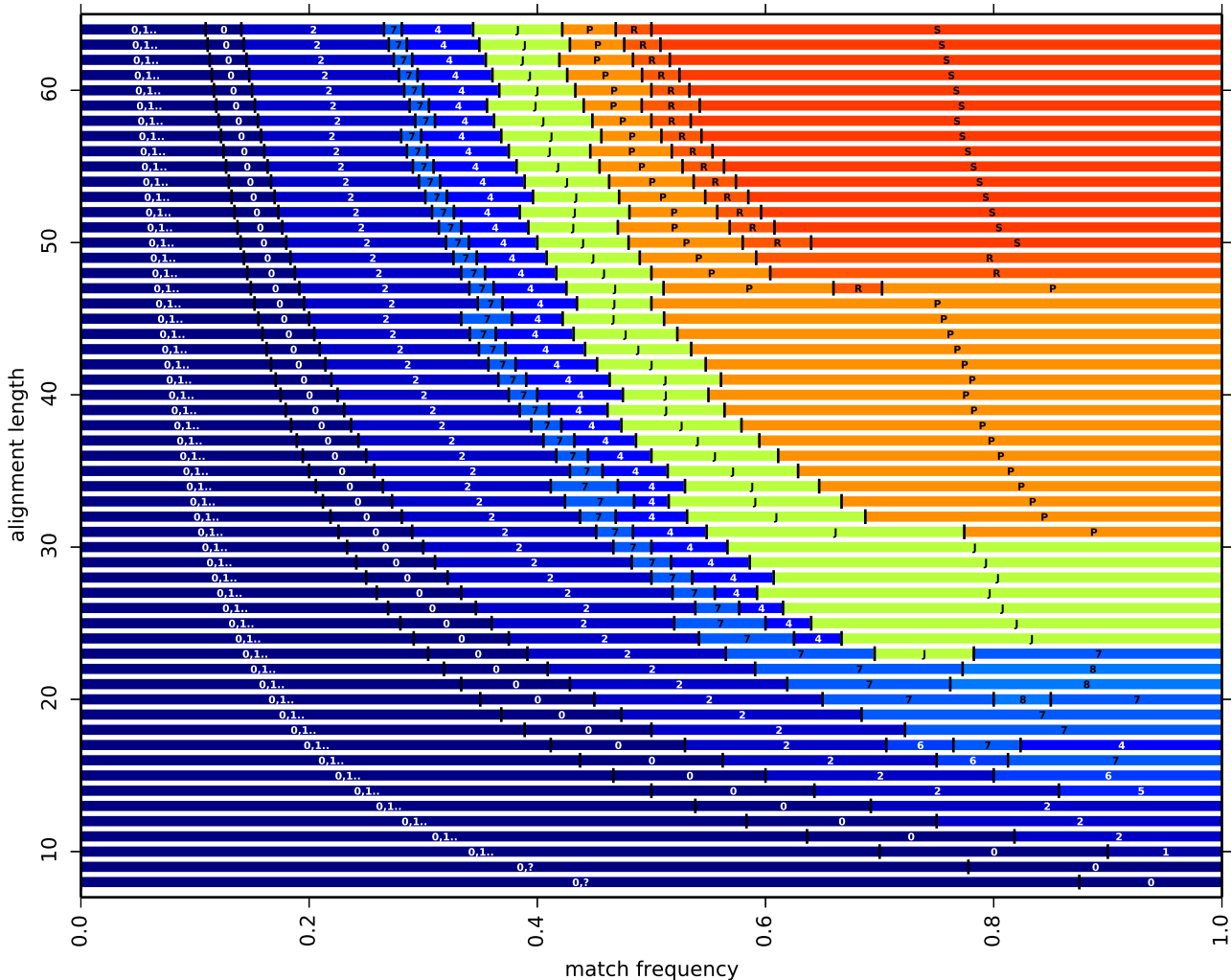
```

```

Q = 11101111,10101000011011
R = 1101010111,11100001001011
S = 111010100111,110100010001011
T = 10110010111,110100001000111
U = 1110010111,1101010000010011
V = 10110100011,101001000100000111
W = 11010100111,10101000001001011
X = 110101111,11101100101

```

$$\sum_0^x \text{Heaviside}(n:2,w:7)$$



```

0 = 1111111,11101111
1 = 1111111,11101011
2 = 1101111,111101011
3 = 11101111,1111010011
4 = 11010111,11110010011
5 = 11101111,1110010111
6 = 11101111,1100100111
7 = 11101111,11010010111
8 = 11101111,111010001011

```

```

9 = 11010111,1110001001101
A = 11010111,111010000111
B = 111010111,11010000100111
C = 110110111,1110001000111
D = 11010100111,111000001001101
E = 110100010111,11100100001011
F = 110110111,1101001000111
G = 1110010111,1110010000001011
H = 1110010111,1110010000010011

```

```

I = 1110010111,1100010000010111
J = 110110111,111000101011
K = 1110010111,11100100000000111
L = 1110010111,11100000000010111
M = 1110010111,11100100000010011
N = 1110010111,11000010000010111
O = 1110010111,11100000000010111
P = 1101010111,111001001011

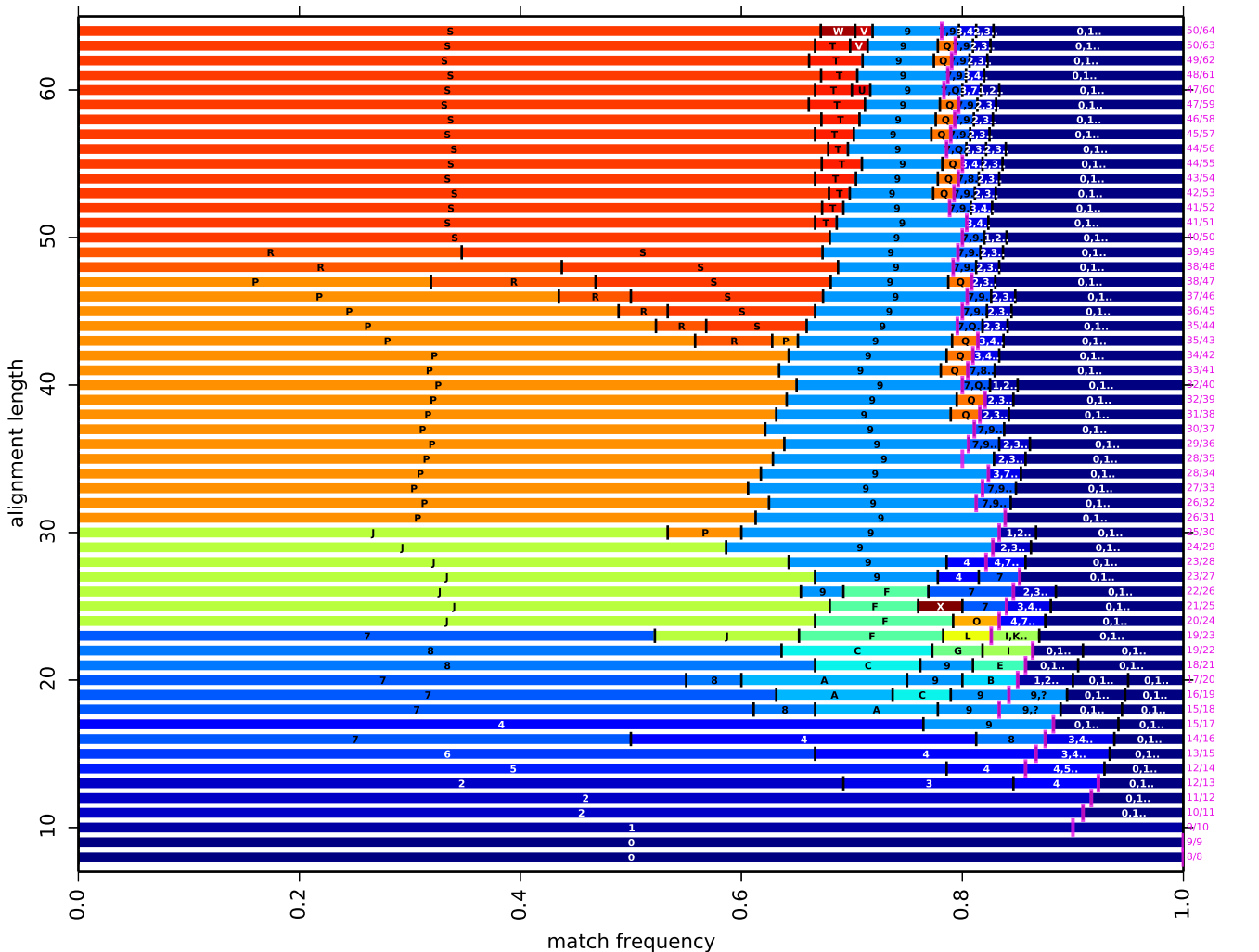
```

```

Q = 11101111,10101000011011
R = 1101010111,11100001001011
S = 11010100111,1101000100001011
T = 10110010111,110100001000111
U = 1110010111,1101010000010011
V = 10110100011,101001000100000111
W = 11010100111,10101000001001011
X = 110101111,11101100101

```


$$\sum_x^1 \text{Heaviside}(n:2, w:7)$$



```

0 = 1111111,11101111
1 = 1111111,111010111
2 = 11011111,111101011
3 = 11101111,1111010011
4 = 11010111,11110010011
5 = 11101111,1110010111
6 = 11101111,11100100111
7 = 11101111,11010010111
8 = 11101111,111010001011

```

```

9 = 11010111,1110001001101
A = 11010111,111010000111
B = 111010111,11010000100111
C = 110110111,1110001000111
D = 1101010011,111000001001101
E = 11010001011,11100100001011
F = 110110111,1101001000111
G = 111001011,1110010000001011
H = 111001011,1110010000010011

```

```

I = 111001011,1100010000010111
J = 110110111,111000101011
K = 111001011,11100100000000111
L = 111001011,11100000000010111
M = 111001011,11100100000010011
N = 111001011,11000010000010111
O = 111001011,111000000000010111
P = 110101011,111001001011

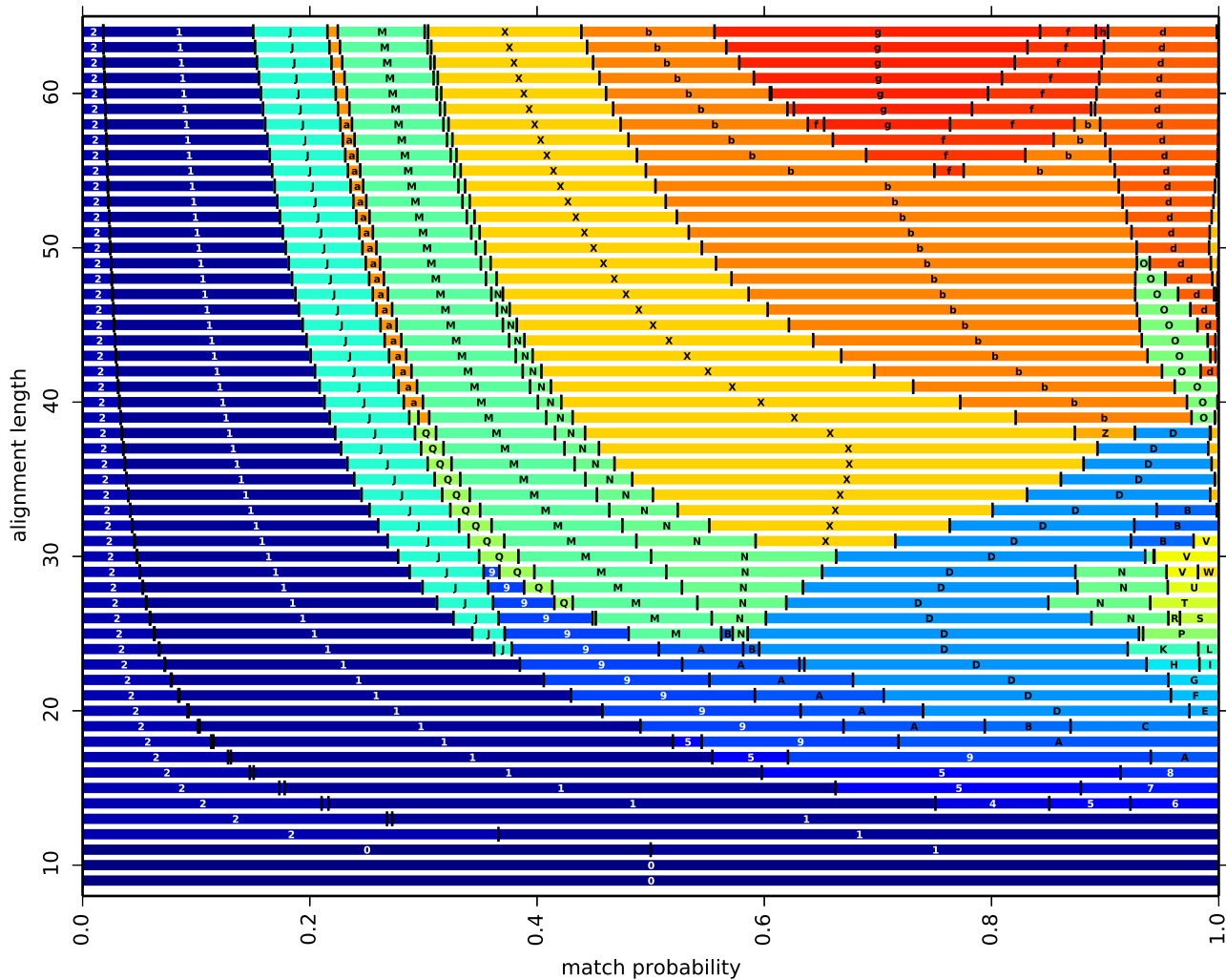
```

```

Q = 1110111,10101000011011
R = 110101011,11100001001011
S = 1101010011,110100010001011
T = 1011001011,110100001000111
U = 111001011,1101010000010011
V = 10110100011,101001000100000111
W = 1101010011,10101000001001011
X = 11010111,11101100101

```

Bernoulli (n:2,w:8)



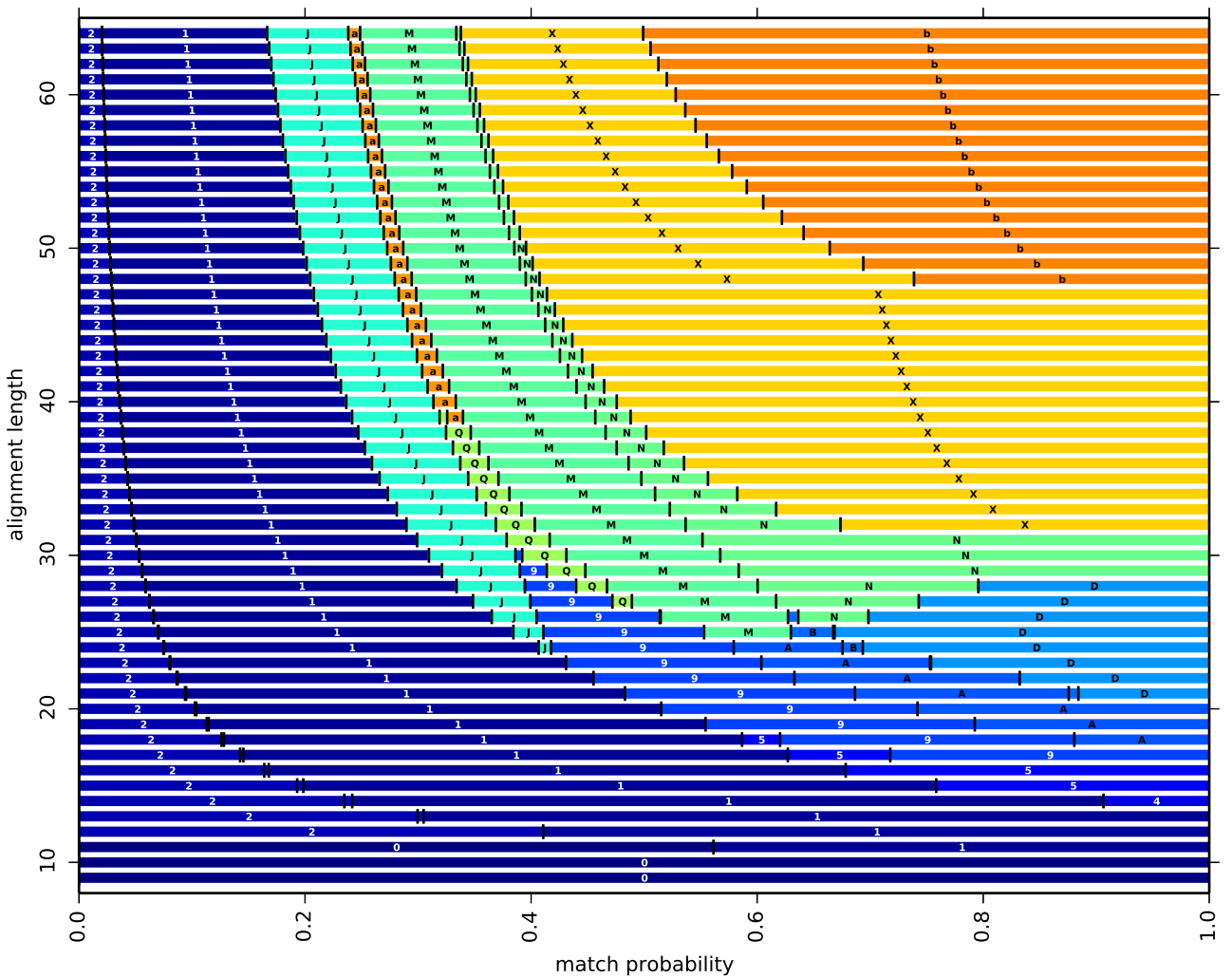
0 = 11111111,111011111
 1 = 111011111,1111101011
 2 = 111111111,111101111
 4 = 110111111,11111001011
 5 = 111011111,11110100111
 6 = 110101111,111101100011
 7 = 101110111,11110010111
 8 = 111011111,11110010111
 9 = 111011111,11101001011
 A = 111101111,1110100010111

B = 1110110111,1110010010111
 C = 111101111,11100100010111
 D = 1110110111,11100010010111
 E = 1101101011,101110000011011
 F = 1110110111,111000010010111
 G = 1110011011,111000010010111
 H = 1100101011,1111000010001011
 I = 11010100111,11110000010001011
 J = 1011111011,11100101111
 K = 11100101011,1110100100000111

L = 110101001111,11110001000001101
 M = 1110110111,1110001010111
 N = 1110110111,11010010001111
 O = 1101101011,11011000000100111
 P = 111001010111,1110100100000111
 Q = 1101011111,111100110011
 R = 1110010111,111001000001010011
 S = 1110100111,111010000001000111
 T = 11101001011,111001000000010111
 U = 111001001011,111001000000010111

V = 1110110111,11010010010111
 W = 111001001011,1110100000000100111
 X = 1101101011,1110001000111
 Z = 1101101011,111000100100111
 a = 1011110111,110110010111
 b = 1101011011,1110100010001011
 d = 1101101011,11001100000110101
 f = 1101101011,10110001000100111
 g = 110100110011,111010000100001011
 h = 11101001011,110010100000101011

\int_0^x Hit Integration (n:2,w:8)



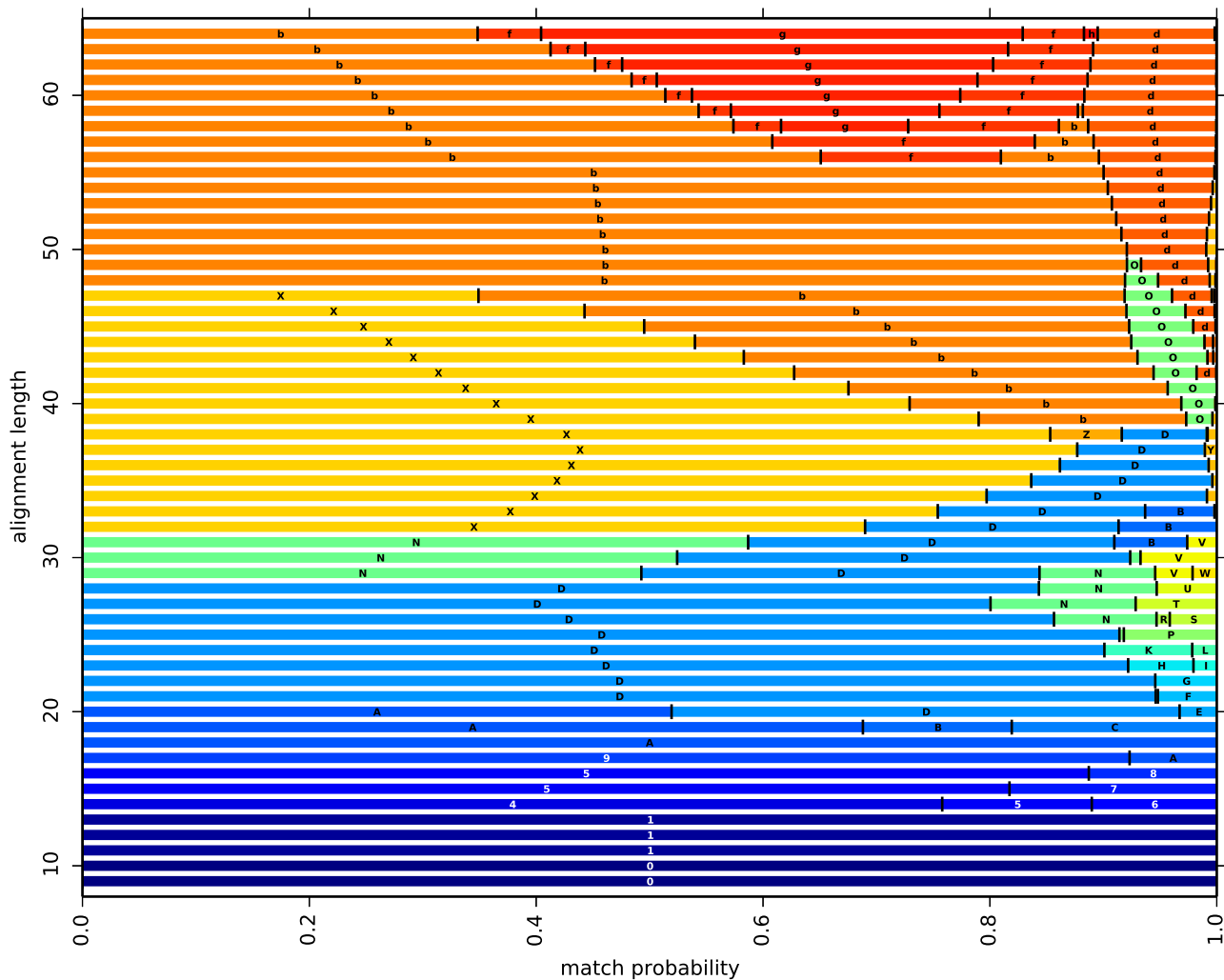
0 = 11111111,11101111
 1 = 11011111,1111101011
 2 = 11111111,11110111
 4 = 11011111,11111001011

5 = 11101111,11110100111
 9 = 11101111,111010010111
 A = 11110111,1110100010111
 8 = 1110110111,1110010010111

D = 1110110111,11100010010111
 J = 1011111011,1110010111
 M = 1110110111,1110001010111
 N = 1110110111,11010010001111

Q = 1101011111,111100110011
 X = 1101101011,11101000100111
 a = 1011110111,110110010111
 b = 1101011011,1110100010001011

\int_x^1 Hit Integration (n:2,w:8)



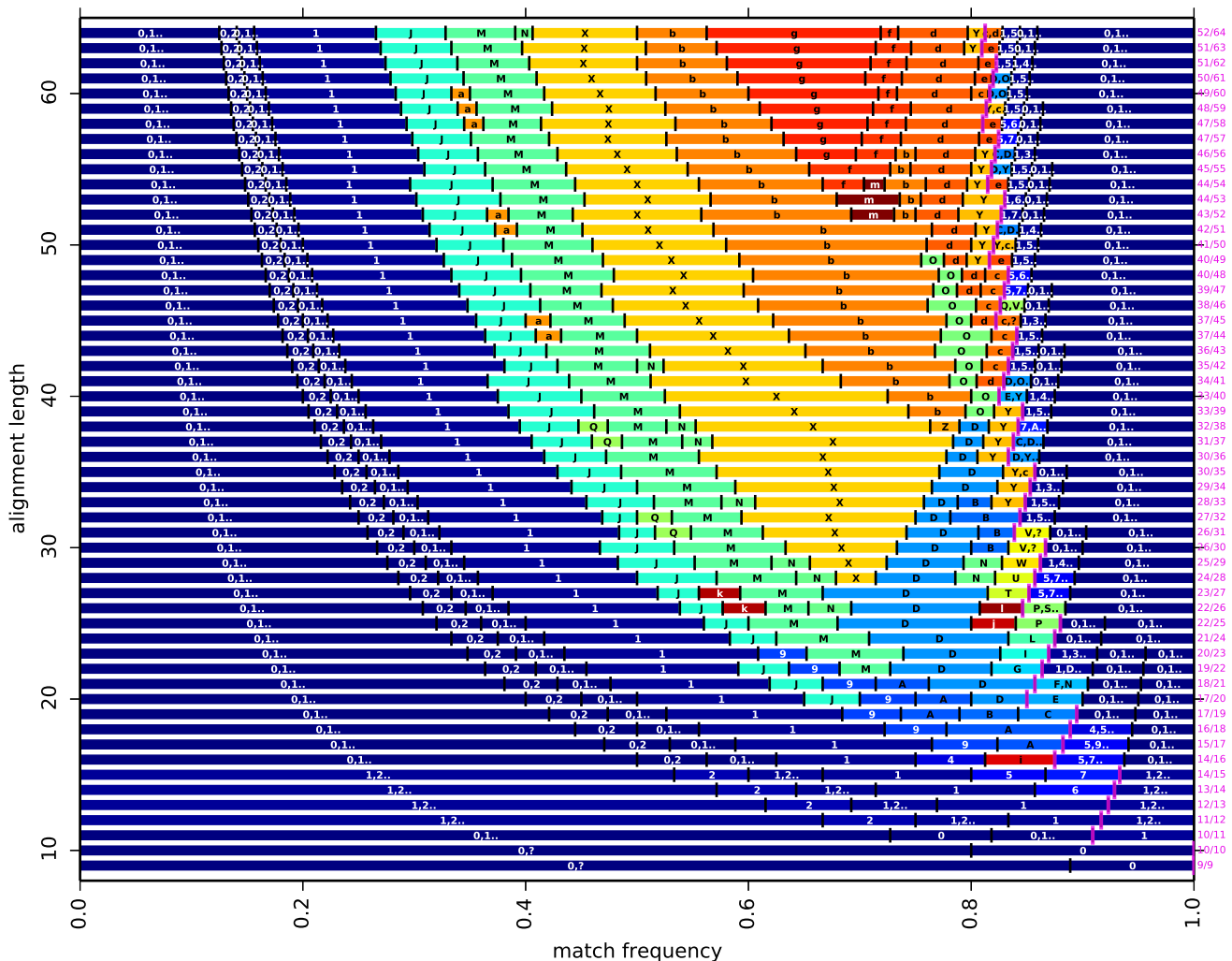
0 = 11111111,11101111
 1 = 11011111,1111101011
 4 = 11011111,11111001011
 5 = 11101111,11110100111
 6 = 110101111,11110100011
 7 = 1011101111,11110010111
 8 = 11101111,111100101011
 9 = 11101111,111010010111
 A = 111101111,1110100010111

B = 1110110111,1110010010111
 C = 111101111,11100100010111
 D = 1110110111,11100010010111
 E = 11011010111,1011100000110111
 F = 1110110111,111000010010111
 G = 11100110111,1111000010010111
 H = 11001010111,11110000100010111
 I = 11010100111,111100000100010111
 K = 111001010111,1110100100000111

L = 110101001111,11110001000001101
 N = 1110110111,11010010001111
 O = 11011010111,11011000000100111
 P = 111001010111,11101001000000111
 R = 11100101111,111001000001010011
 S = 11101001111,111010000001000111
 T = 111010010111,111001000000010111
 U = 1110010010111,111001000000010111
 V = 1110110111,11010010010111

W = 1110010010111,1110100000000100111
 X = 11011010111,11101000100111
 Y = 100110101111,10111100010011
 Z = 11011010111,111000100100111
 b = 11010110111,1110100010001011
 d = 11011010111,11001100000110101
 f = 110110100111,101100001000111
 g = 1101001100111,111010000100001011
 h = 111010010111,1100101000001010011

Dirac (n:2,w:8)



```

0 = 11111111,11101111
1 = 11011111,111101011
2 = 11111111,11101111
3 = 11111111,111010111
4 = 11011111,1111001011
5 = 11101111,1111001011
6 = 110101111,11110100011
7 = 101110111,1111001011
8 = 11101111,1111001011
9 = 11101111,11101001011
A = 11110111,111010001011
B = 111011011,111001001011
C = 11110111,1110010001011

```

```

D = 1110110111,1110001001011
E = 1101101011,101110000011011
F = 111011011,11100001001011
G = 1110011011,11100001001011
H = 1100110111,1111000010001011
I = 1110100111,1111000010001011
J = 101111011,1110010111
K = 11100101011,1110100100000111
L = 1101100111,11110001000001101
M = 111011011,111000101011
N = 111011011,1110001000111
O = 1101101011,1101100000100111

```

```

P = 11100101011,1110100100000011
Q = 110101111,11110010011
R = 1110010111,111001000001010011
S = 1110100111,111010000001000111
T = 11100101011,111001000000010111
U = 111001001011,111001000000010111
V = 111011011,111001001011
W = 111001001011,1110100000000100111
X = 1101101011,1110100010011
Y = 1001101011,10111100010011
Z = 111011011,111000010010111
a = 101111011,110110010111

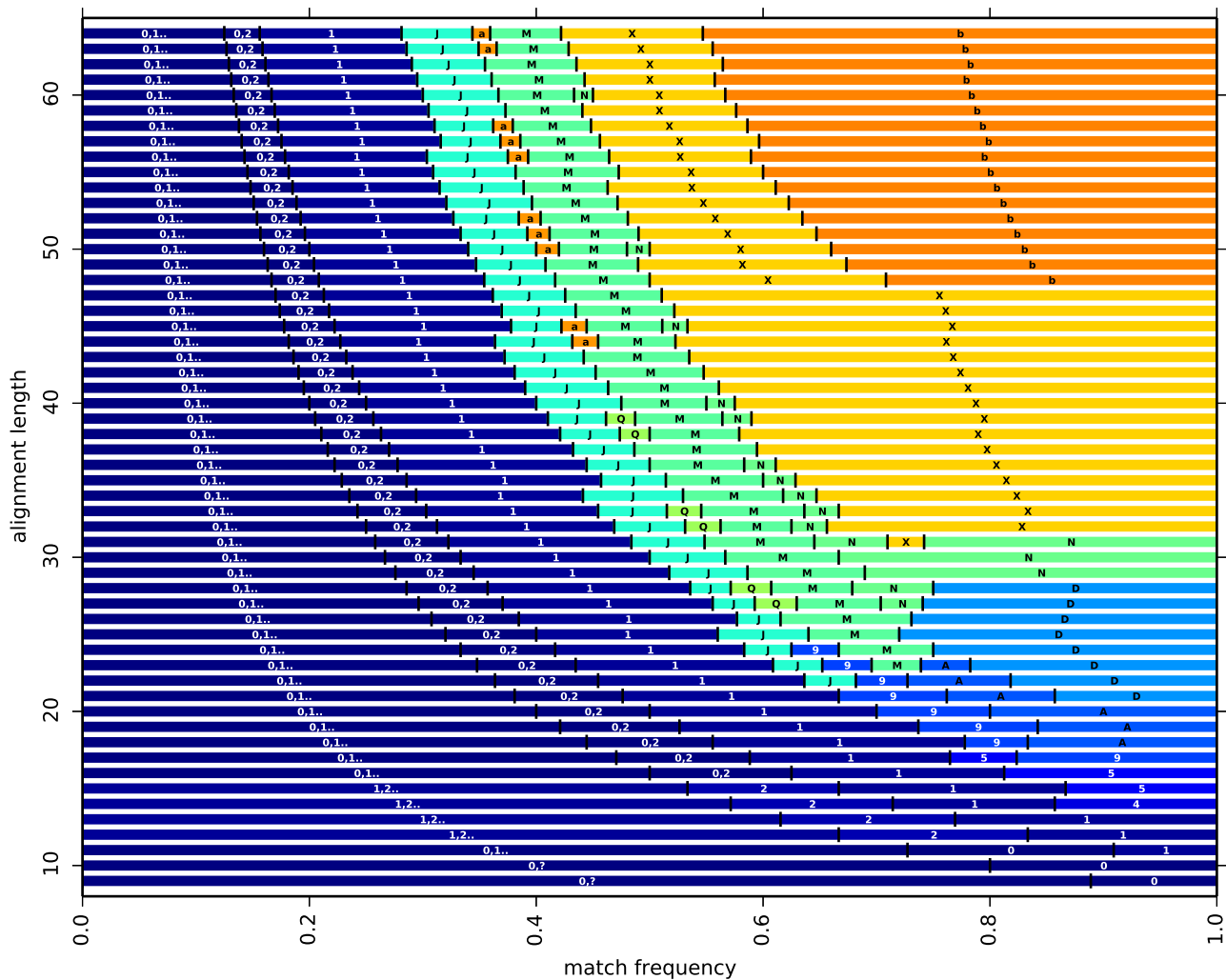
```

```

b = 1101101011,1110100010001011
c = 101110111,11000100101111
d = 1101101011,1100100000110101
e = 1001101011,110111100001001
f = 1101101011,10110001000100111
g = 11010010011,11101000000010111
h = 11101001011,1100101000001010011
i = 11101111,111100100111
j = 1110100111,111001000000100111
k = 110101111,111100101011
l = 11101001011,111001000000100111
m = 1101011011,1101000100010111

```

$$\sum_0^x \text{Heaviside}(n;2,w;8)$$



```

0 = 11111111,1110101111
1 = 110111111,1111101011
2 = 11111111,1111011111
3 = 11111111,1110101111
4 = 11011111,11111001011
5 = 111011111,11110100111
6 = 110101111,11110100011
7 = 101110111,11110010111
8 = 11101111,111100101011
9 = 111011111,111010010111
A = 11110111,1110100010111
B = 111011011,1110010010111
C = 11110111,11100100010111

```

```

D = 1110110111,11100010010111
E = 11011010111,1011100000110111
F = 1110110111,111000010010111
G = 1110010111,111000010010111
H = 11001010111,1111000010001011
I = 11101001111,111100000100010111
J = 1011111011,11100101111
K = 111001010111,1110100100000111
L = 11010100111,11110001000001101
M = 1110110111,1110001010111
N = 1110110111,11010010001111
O = 1101101011,11011000000100111

```

```

P = 111001010111,11101001000000111
Q = 1101011111,111100110011
R = 1110010111,111001000001010011
S = 1110100111,111010000001000111
T = 111010010111,111001000000001111
U = 1110010010111,111001000000010111
V = 1110110111,11010010010111
W = 1110010010111,1110100000000100111
X = 11011010111,11101000100111
Y = 10011010111,10111100010011
Z = 11011010111,11100010010111
a = 1011110111,110110010111

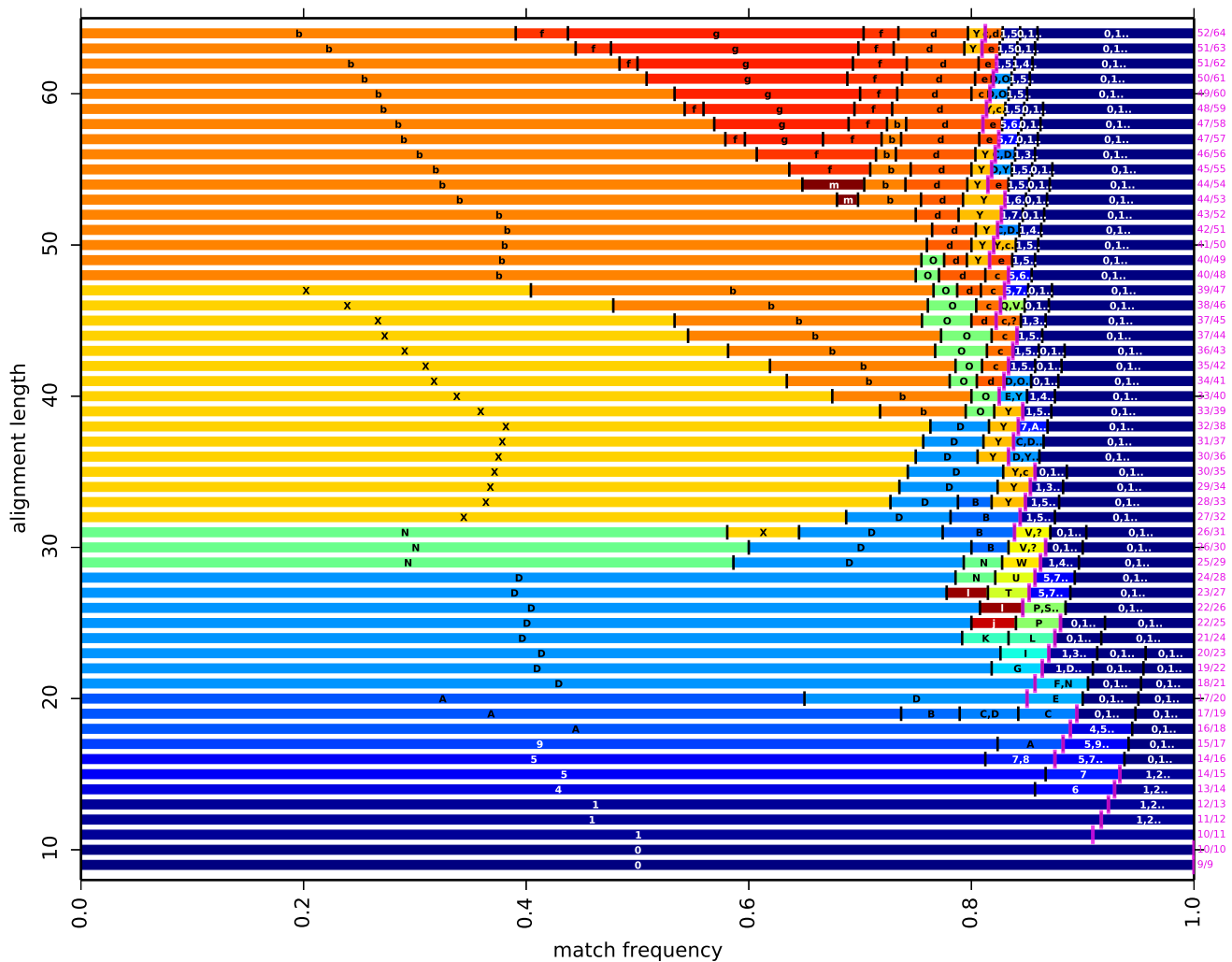
```

```

b = 11010110111,1110100010001011
c = 1011101111,11000100101111
d = 11011010111,11001100000110101
e = 10011010111,11011110001001
f = 110110100111,10110001000100111
g = 1101001100111,111010000100001011
h = 111010010111,1100101000001010011
i = 111011111,111100100111
j = 1110100111,111001000000100111
k = 110101111,111100101011
l = 111010010111,111001000000100111
m = 11010110111,1110000100010111

```

$$\sum_x^1 \text{Heaviside}(n;2,w;8)$$



```

0 = 11111111,11101111
1 = 11011111,1111101011
2 = 11111111,111101111
3 = 11111111,1110101111
4 = 11011111,11111001011
5 = 11101111,11110100111
6 = 110101111,11110100011
7 = 101110111,11110010111
8 = 11101111,111100101011
9 = 11101111,111010010111
A = 11110111,1110100010111
B = 111011011,1110010010111
C = 11110111,11100100010111

```

```

D = 1110110111,11100010010111
E = 1101101011,1011100000110111
F = 1110110111,111000010010111
G = 1110011011,111000010010111
H = 1100110111,1111000010001011
I = 1101100111,1111000010001011
J = 1011111011,11100101111
K = 11100101011,1110100100000111
L = 1101100111,11110001000001101
M = 1110110111,1110001010111
N = 111011011,11010010001111
O = 1101101011,1101100000100111

```

```

P = 11100101011,11101001000000111
Q = 1101011111,1111001100111
R = 1110010111,111001000001010011
S = 1110100111,111010000001000111
T = 11101001011,1110010000000010111
U = 11101001011,1110010000000010111
V = 111011011,11010010010111
W = 111001001011,1110100000000100111
X = 1101101011,11101000100111
Y = 1001101011,101111000100111
Z = 1110110111,11100010010111
a = 1011110111,110110010111

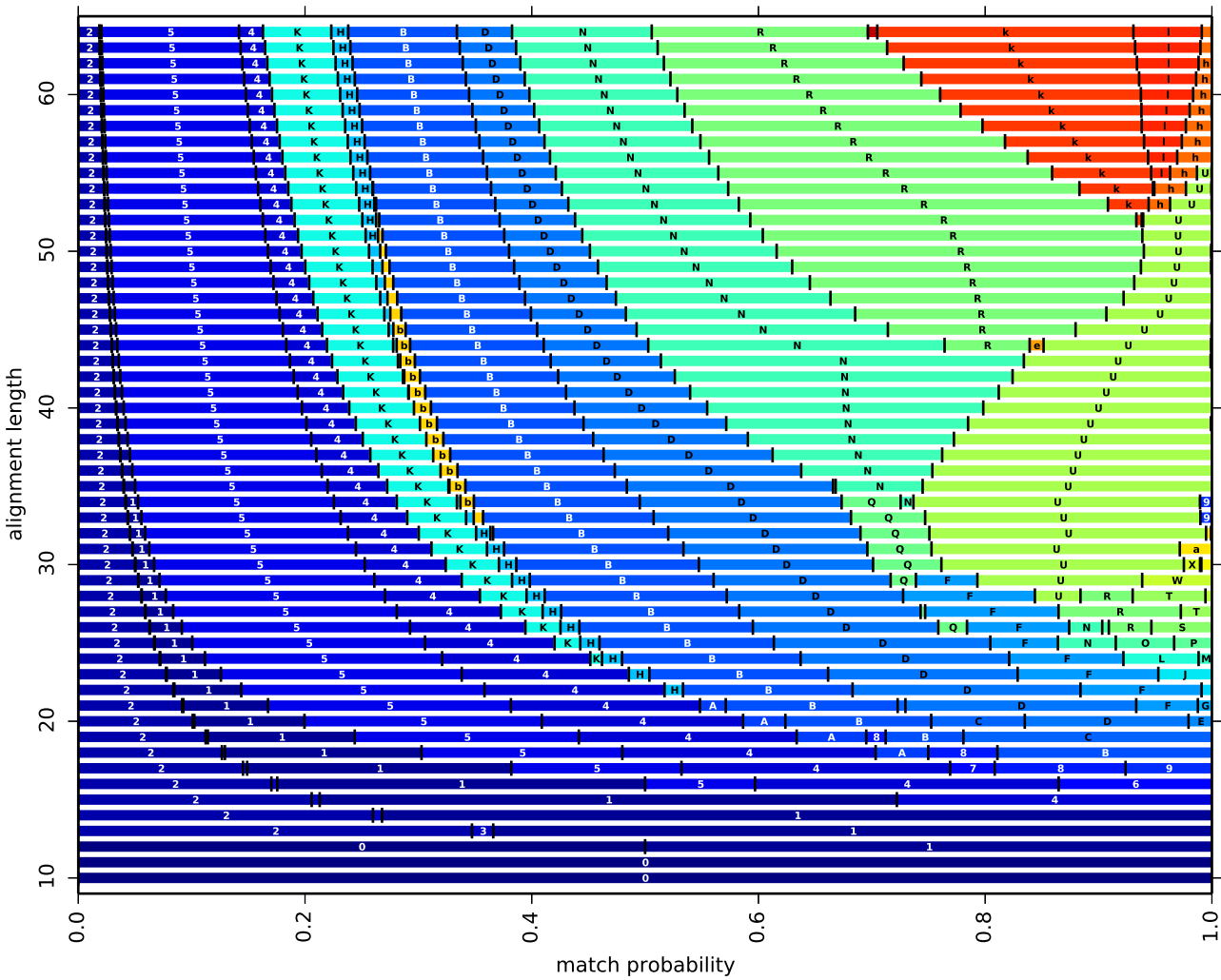
```

```

b = 1101101011,1110100010001011
c = 1011101111,11000100101111
d = 1101101011,11001100000110101
e = 10011010111,11011110001001
f = 11011010011,10110001000100111
g = 11010010011,11101000010001011
h = 11101001011,110011000001010011
i = 11101111,111100100111
j = 1110100111,11100100000100111
k = 11011111,111100101011
l = 11101001011,11100100000100111
m = 1101101011,1101000100010111

```

Bernoulli (n:2,w:9)



```

0 = 111111111,1110111111
1 = 111011111,11111101011
2 = 111111111,111011111
3 = 11111111,11101101111
4 = 110111111,111110010111
5 = 110111111,11111010111
6 = 1101011111,1111001101011
7 = 111011111,1111010010111
8 = 1111010111,1110100110111
9 = 1110110111,11110100100111
A = 111011111,1111001010111
B = 1101110111,11110100100111
C = 1110110111,11110100010111

```

```

D = 1110110111,111100100010111
E = 1101110111,1111000010010111
F = 1110110111,1111000100010111
G = 110010101111,1111100001100101
H = 110101111,1111011001011
J = 1110110111,11110100011111
K = 1101111101,111100101111
L = 1110110111,1111000010010111
M = 11001010111,11111000010001101
N = 11101011011,11101000100010111
O = 11101011011,11101001000010111
P = 110010101111,111110000100011001
Q = 1110110111,1110100100011111

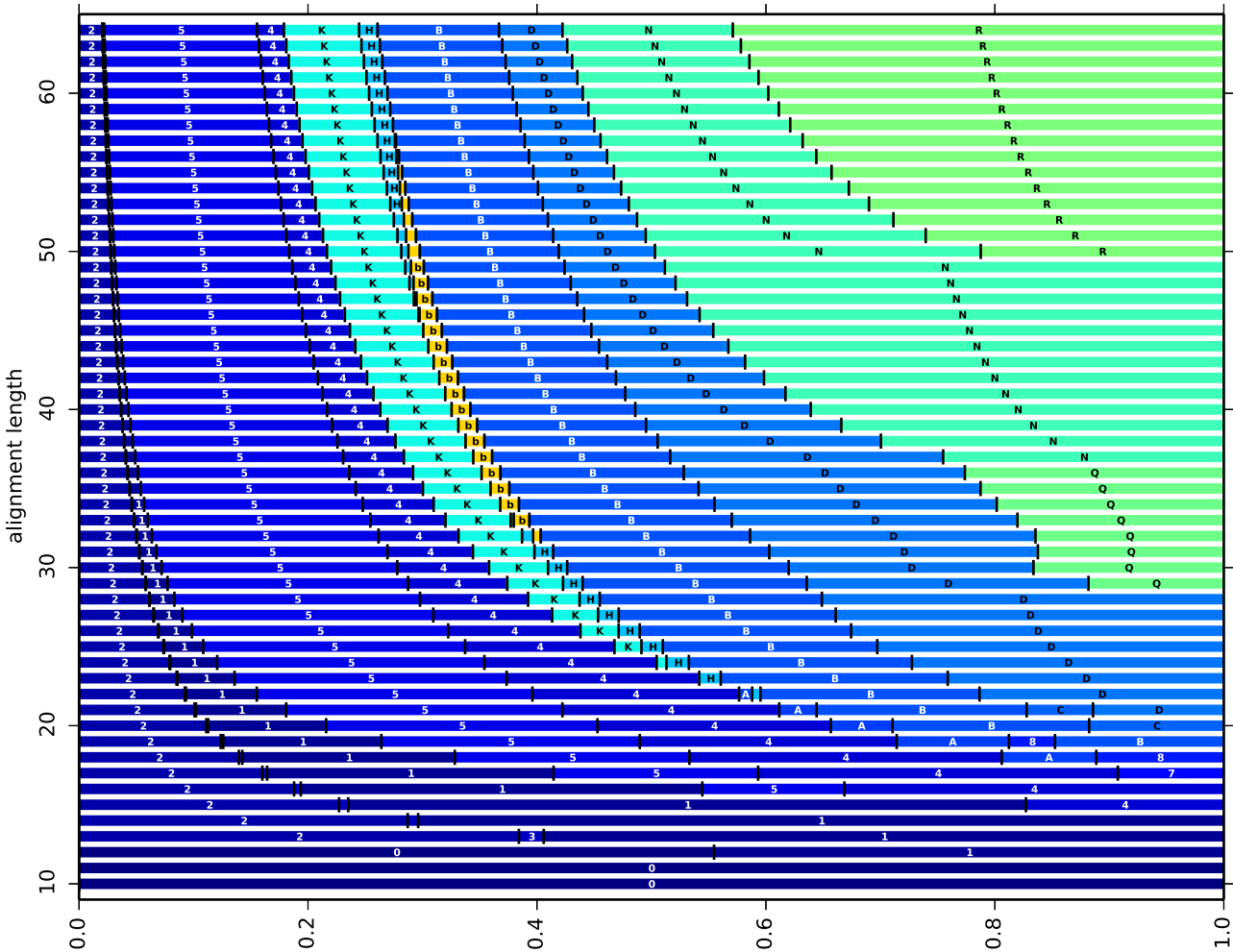
```

```

R = 111001011011,111010001000010111
S = 101110010111,1111001000000101011
T = 111001101011,1111000001000010111
U = 1110110111,110110000001010111
W = 111001011011,11101000001001000111
X = 1110100111,111001000000100100111
a = 111010100111,1110001000000100100111
b = 1101111011,1110100110111
e = 11011010111,11100010010010111
h = 11101011011,1101001100010111
k = 111010011011,111001010000001010011
l = 110011010111,11001100101000000111

```


\int_0^x Hit Integration (n:2,w:9)

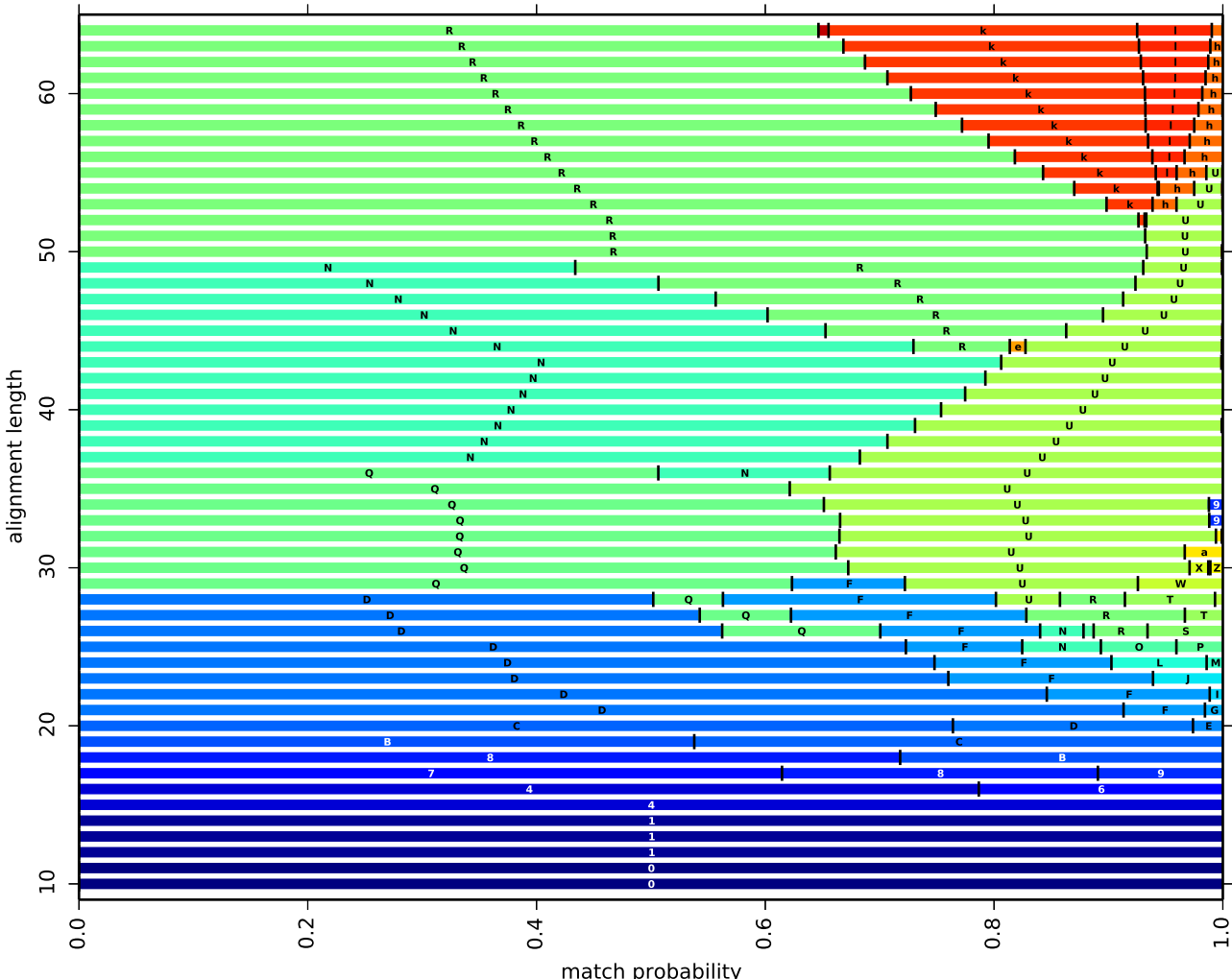


0 = 11111111,111011111
 1 = 111011111,1111101011
 2 = 11111111,111101111
 3 = 11111111,1110110111
 4 = 110111111,11110010111
 5 = 110111111,1111101011

7 = 111011111,111101001011
 8 = 1111010111,1110100110111
 A = 111011111,111100101011
 B = 1101110111,11110100100111
 C = 1110110111,1111010001011
 D = 1110110111,11110010001011

H = 1101011111,1111011001011
 K = 1101111101,11110010111
 N = 11101011011,1110100010001011
 Q = 1110110111,111010010001111
 R = 111001011011,11101000100001011
 b = 1101111011,111010011011

\int_x^1 Hit Integration (n:2,w:9)



```

0 = 11111111,111011111
1 = 111011111,1111101011
4 = 110111111,111110010111
6 = 1101011111,1111001101011
7 = 111011111,1111010010111
8 = 1111010111,1110100110111
9 = 11101101111,11110100100111
B = 11011101111,11110100100111
C = 11101101111,11110100010111
D = 11101101111,111100100010111
E = 11011101111,1111000010010111

```

```

F = 11101101111,1111000100010111
G = 110010101111,1111100001100101
I = 11011011111,11110000100010111
J = 11101101111,1111000010001111
L = 111010110111,1111000010010111
M = 110010101111,11111000010001101
N = 111010110111,111101000100010111
O = 111010110111,111101001000010111
P = 110010101111,111110000100011001
Q = 11101101111,1111010010001111
R = 1110010110111,1111010001000010111

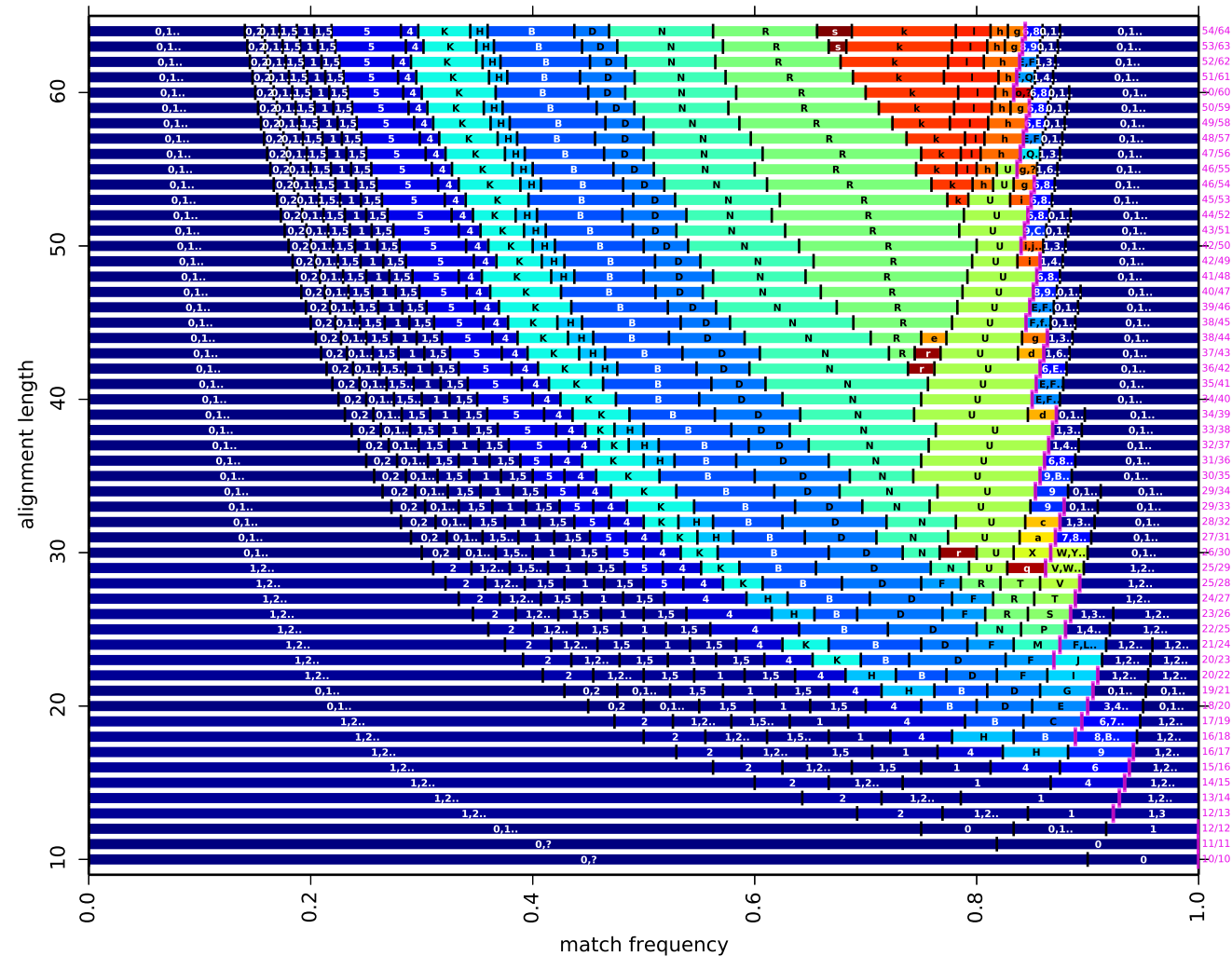
```

```

S = 1011100101111,111100100000101011
T = 1110011010111,1111000001000010111
U = 11101101111,11011000001010111
W = 11100010110111,111101000001001000111
X = 1110101001111,111001000000100100111
Z = 1110101001111,1111000100000010010111
a = 1110101001111,11110001000000100100111
e = 1101101010111,111100010010010111
h = 111010110111,1101001100010111
k = 1110100110111,111001010000001010011
l = 110011010111,1100110010100000111

```

Dirac (n:2,w:9)



```

0 = 11111111,111011111
1 = 111011111,1111101011
2 = 11111111,1110101111
3 = 11111111,1110101111
4 = 110111111,111110010111
5 = 110111111,11111010111
6 = 110101111,111100101011
7 = 110111111,111100100111
8 = 1111010111,111010011011
9 = 1110110111,1111010010111
A = 111011111,111100101011
B = 1110110111,1111010010111
C = 1110101111,11110100010111
D = 1110110111,111100100010111
E = 1101110111,1111000010010111
F = 1110101111,1111000100010111
G = 110010101111,1111100001100101
H = 1101011111,1111011001011
I = 1101101111,11110000100011011

```

```

J = 1110110111,1110100010001111
K = 11011111011,111100101111
L = 111010110111,1111000010010111
M = 110010101111,11111000010001101
N = 111010110111,11101000100010111
O = 111010110111,11101001000010111
P = 110010101111,111110000100011001
Q = 11101101111,111010010001111
R = 1110010110111,111010001000010111
S = 1011100101111,11110010000101011
T = 1110011010111,1111000001000010111
U = 11101101111,1101100001010111
V = 1110011010111,1110001000000101111
W = 1110010110111,11101000001001001111
X = 1110101001111,11100100000010010111
Y = 1110100110111,11100010000001001111
Z = 111010101111,111000100000010010111
a = 1110101001111,111000100000010010111

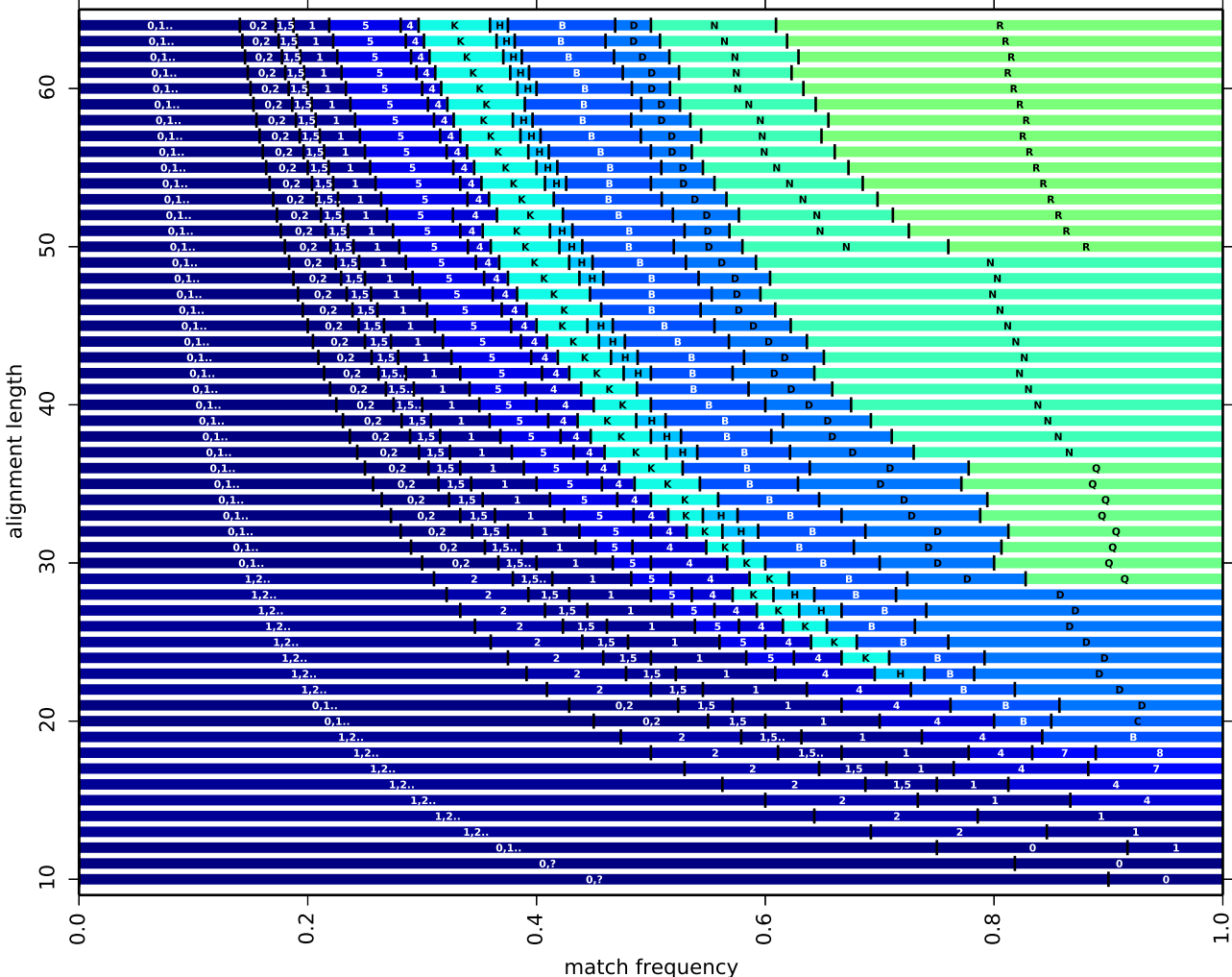
```

```

b = 11011110111,1110100110111
c = 1110101001111,1111000000000100100111
d = 11101011111,110011000001010111
e = 1101101010111,11100010010010111
f = 110111010111,11110000100101011
g = 11011101111,1101101100000111
h = 111010110111,1101001100010111
i = 110010101111,111110100110001
j = 111010110111,11101010000010100111
k = 1110100110111,111001010000001010011
l = 1100110101111,1100110010100000111
m = 11101101111,101011000001001111
n = 110011010111,111101000010010101
o = 10111101111,111010100001010101
p = 11011001010111,1101010000110001011
q = 1110101001111,1110101000000100111
r = 111010110111,1110100001010111
s = 111010100010111,11101000100001001011

```

$$\sum_0^x \text{Heaviside}(n;2,w;9)$$



```

0 = 11111111,111011111
1 = 111011111,1111101011
2 = 11111111,111101111
3 = 11111111,1110101111
4 = 110111111,11111001011
5 = 110111111,11111010111
6 = 110101111,111100101011
7 = 111011111,11110010111
8 = 111101011,111010011011
9 = 111011011,111101001011
A = 111011111,111100101011
B = 110110111,111101001011
C = 111011011,1111010001011
D = 111011011,1111001001011
E = 110110111,111100001001011
F = 111011011,111100010001011
G = 11001010111,1111100001100101
H = 110101111,1111011001011
I = 110110111,11110000100011011

```

```

J = 1110110111,1110100010001111
K = 1101111011,111100101111
L = 1110101011,1111000010010111
M = 11001010111,11111000010001101
N = 11101011011,11101000100010111
O = 11101011011,11101001000010111
P = 11001010111,11110000100011001
Q = 111010111,111010010001111
R = 111001011011,111010001000010111
S = 10111001011,11110010000101011
T = 111001101011,1111000001000010111
U = 111011011,11101000001010111
V = 111001101011,1110001000000101111
W = 111001011011,11101000001001000111
X = 11101010011,11100100000010010111
Y = 111010011011,111000100000010100111
Z = 11101010011,111000100000010010111
a = 11101010011,1110001000000100100111

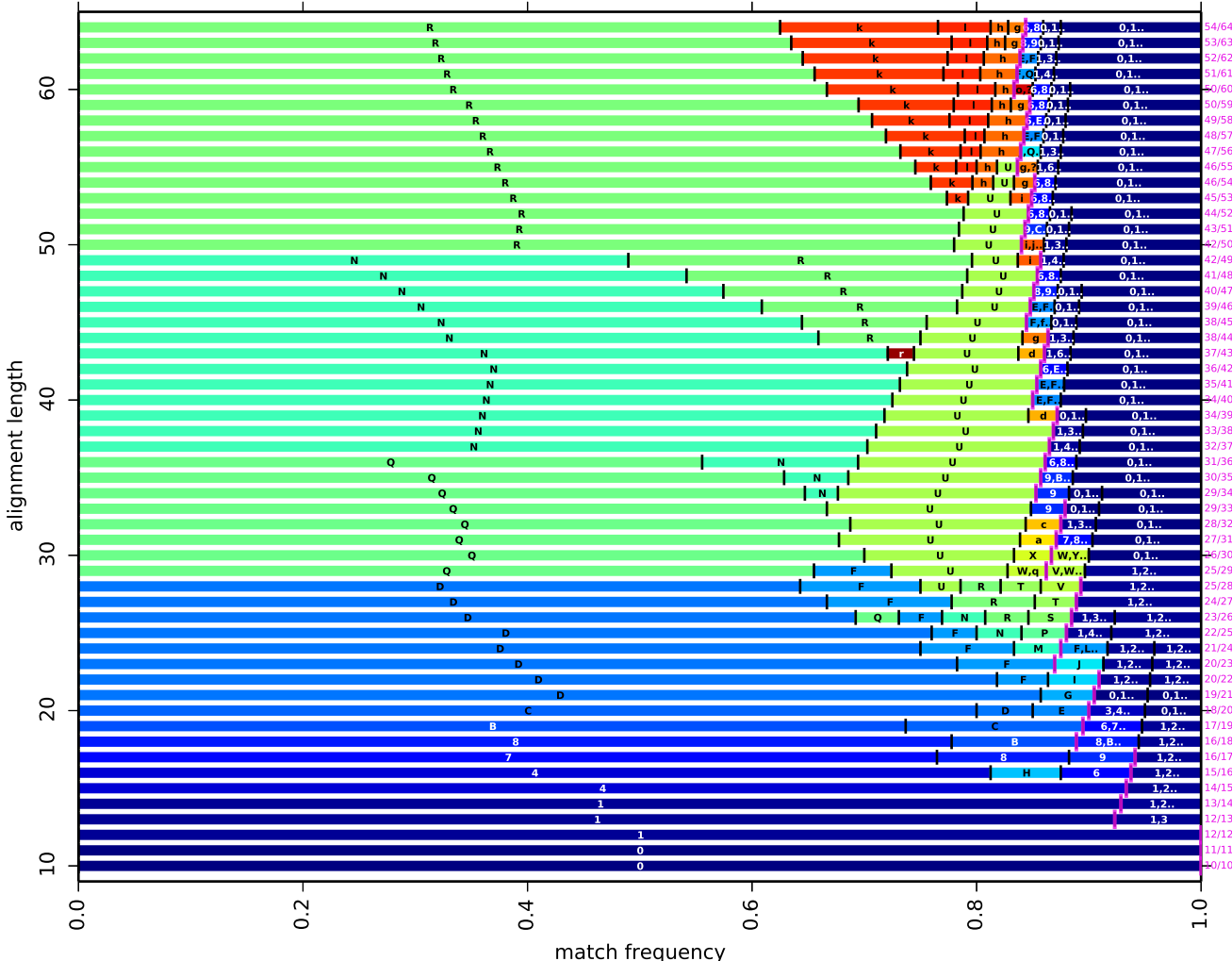
```

```

b = 1101111011,111010011010111
c = 111010100111,1111000000000100100111
d = 1110110111,110011000001010111
e = 11010101011,11100010010010111
f = 11011101011,11110000100101011
g = 1101111011,1101101100000111
h = 1110110111,11001100100010111
i = 11001010111,111110100110001
j = 11101011011,111010100001010011
k = 111010011011,11100101000001010011
l = 11001101011,110011010100000111
m = 1110110111,101011000001001111
n = 11001101011,1111010000100101
o = 1011111011,111011000011101
p = 1101100101011,110110000110001011
q = 11101010011,11101001000000100111
r = 11101011011,11101000010010111
s = 1101010001011,11101000100001001011

```

$$\sum_x^1 \text{Heaviside}(n:2,w:9)$$



```

0 = 11111111,1110111111
1 = 1110111111,11111101011
2 = 111111111,1111011111
3 = 111111111,11101101111
4 = 1101111111,111110010111
5 = 1101111111,11111010111
6 = 1101011111,111100101011
7 = 111011111,1111010010111
8 = 1111010111,1110100110111
9 = 1110110111,11110100100111
A = 1110111111,1111001010111
B = 1101110111,1111010010111
C = 1110110111,11110100010111
D = 1110110111,11110100010111
E = 1101110111,1111000010010111
F = 1110110111,1111000100010111
G = 110010101111,1111100001100101
H = 1101011111,1111011001011
I = 1101011111,11110000100011011

```

```

J = 1110110111,1110100010001111
K = 11011111011,111101011111
L = 111010110111,1111000010010111
M = 110010101111,11111000010001101
N = 111010110111,11101000100010111
O = 111010110111,11101001000010111
P = 110010101111,111110000100011001
Q = 1110110111,111010010001111
R = 111001011011,111010001000010111
S = 101110010111,11110010000101011
T = 111001101011,1111000001000010111
U = 1110110111,1101100001010111
V = 111001101011,111000100000010111
W = 111001011011,1110100001001000111
X = 111010100111,11100100000010010111
Y = 111010011011,111000100000010010111
Z = 11101010111,111000100000010010111
a = 111010100111,111000100000010010111

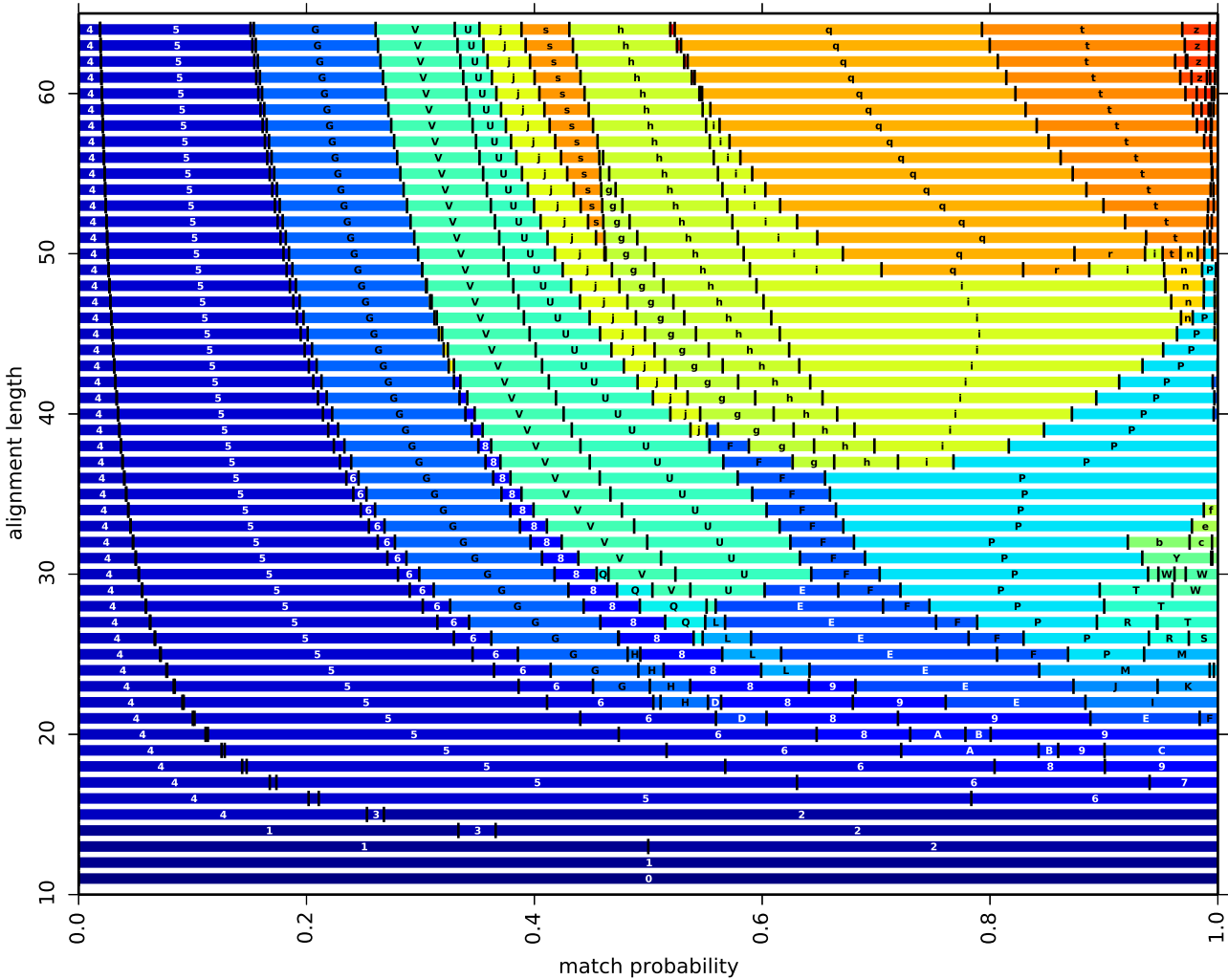
```

```

b = 11011110111,111010011010111
c = 111010100111,1111000000000100100111
d = 1110110111,110011000001010111
e = 110110101011,11100010010010111
f = 11011101011,11110000100101011
g = 1101111011,1101101100000111
h = 1110110111,110100110001010111
i = 11001010111,111110100110001
j = 1110110111,1110101000001010011
k = 111010011011,111001010000001010011
l = 110011010111,1100110010100000111
m = 1110110111,110100100000100111
n = 110011010111,11110100011000101
o = 10111110111,111011000101101
p = 1101100101011,1101010000110001011
q = 111010100111,1110101000000100111
r = 11101010111,11101000010010111
s = 11010110001011,1110100010001001011

```

Bernoulli (n:2,w:10)



```

0 = 111111111,1011111111
1 = 111111111,1111011111
2 = 111011111,11111101011
3 = 111111111,11110110111
4 = 111111111,1111101111
5 = 111011111,11111010111
6 = 111011111,11111001011
7 = 110101111,1111011001011
8 = 11101101111,1111101001011
9 = 1110101111,1111100100111
A = 1110101111,1111100101011
B = 1101101111,111110010111
C = 1111010111,111011001100111
D = 1101111011,1111010011111
E = 1110111011,111100010010111
F = 1110111011,11110100100010111

```

```

G = 11011101111,1111101101011
H = 1011101111,111101101011
I = 11011101111,111101000010111
J = 1111011011,111100100010111
K = 11110110111,11110001010001111
L = 1101110111,111101001001111
M = 11110110111,11110001000101111
P = 11101110111,11101000100101111
Q = 11101101111,111101010100111
R = 1110110111,111100100100010111
S = 1110100110111,1111010000100011011
T = 1110011010111,1111010001000010111
U = 11101110111,11110010100010111
V = 11101110111,111010010110111
W = 1110011010111,11110100010000001111

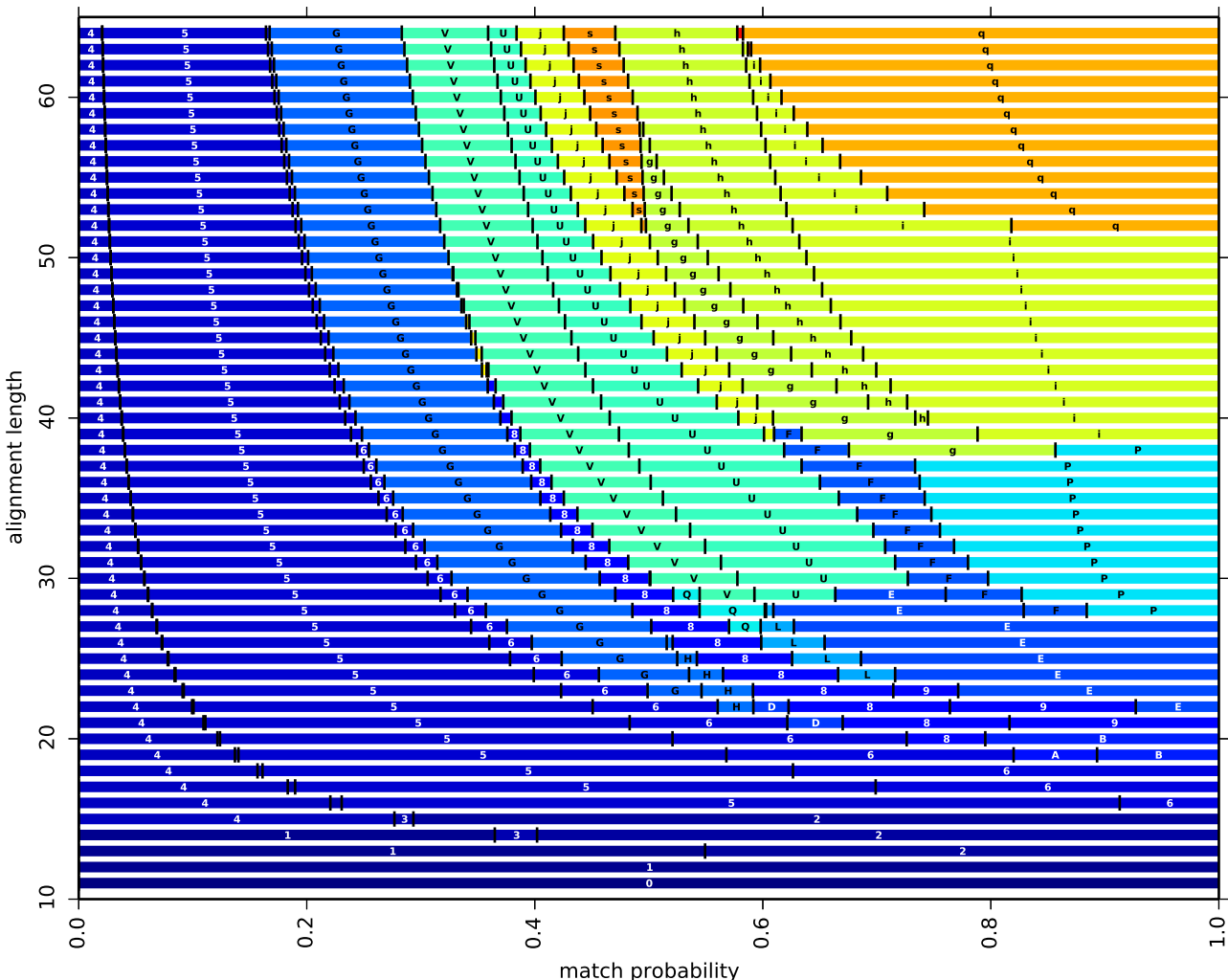
```

```

Y = 111010011001111,111101000001000010111
b = 11101100101111,1110100100000010100111
c = 11101100101111,1110011000000001010111
e = 110110010101111,11110010000000010100111
f = 11011001010111,111100010000000010010111
g = 111010110111,11101001100010111
h = 111010110111,111100100100010111
i = 111011010111,1110110010100010111
j = 111011010111,1111010100100111
n = 11101001110111,111100010010010111
q = 111010010110111,11101001000100010111
r = 111010010110111,1110101000110001011
s = 110111101011,11110010010010111
t = 111010011010111,111010100001000100111
z = 11101001101111,110101011000000110011

```

\int_0^x Hit Integration (n:2,w:10)

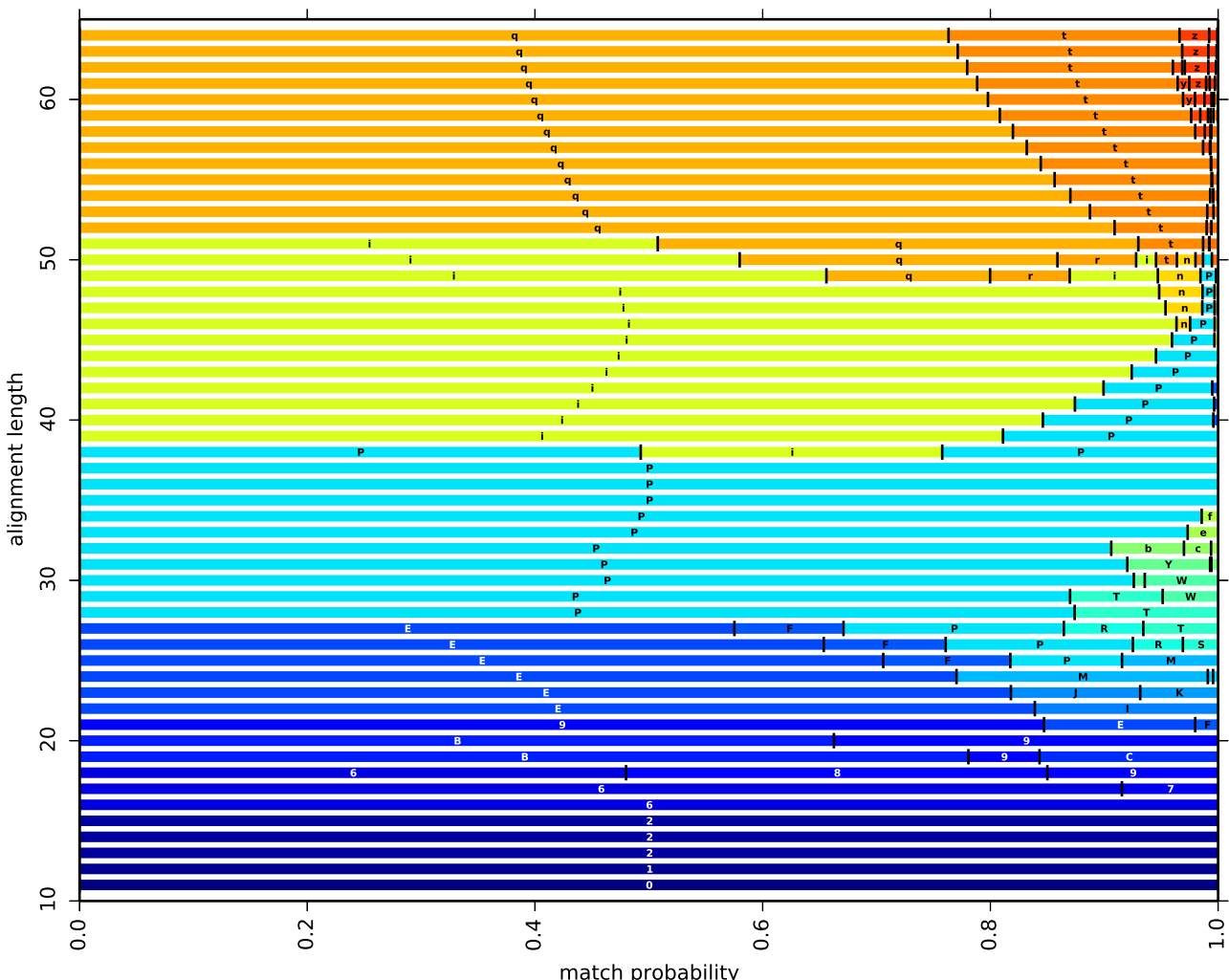


0 = 1111111111,1011111111
 1 = 1111111111,1111011111
 2 = 1110111111,1111111011
 3 = 1111111111,1111011011
 4 = 1111111111,1111101111
 5 = 1110111111,1111110111
 6 = 1110111111,1111100111
 8 = 1110110111,111110100111
 9 = 1110110111,1111100100111

A = 1110101111,1111100110111
 B = 1101110111,1111101001011
 D = 1101111011,111101001111
 E = 1110111011,11110001001111
 F = 1110111011,1111010010001011
 G = 1101110111,111110110111
 H = 1011101111,111101101111
 L = 1101110111,11111001001111
 P = 1110111011,111010001001111

Q = 1110110111,1111010100111
 U = 1110111011,111100101001011
 V = 1110111011,11101001010111
 g = 111010110111,11101001100010111
 h = 111010110111,11110010010001011
 i = 1110110111,11011001010001011
 j = 1110110111,1110101100100111
 q = 11101001010111,111010010001000111
 s = 1101111011,111100100100111

\int_x^1 Hit Integration (n:2,w:10)



```

0 = 111111111,101111111
1 = 111111111,111011111
2 = 1110111111,11111101011
6 = 1110111111,111110010111
7 = 1101011111,1111010010111
8 = 11101101111,1111101000111
9 = 11101101111,111110010100111
B = 11011101111,11111010010111
C = 11110101111,111011001100111
E = 11101110111,111100010010111
F = 11101110111,11110100100010111

```

```

I = 110111010111,111101000010111
J = 11110110111,111100100010111
K = 11110110111,11110001010001111
M = 11110110111,11110001000101111
P = 11101110111,11101000100101111
R = 11101101111,111100100100010111
S = 1110100110111,1111010000100011011
T = 1110011010111,1111010001000010111
W = 1110011010111,11110100010000001111
Y = 11101001100111,111101000001000010111
b = 1110110010111,1110100100000010100111

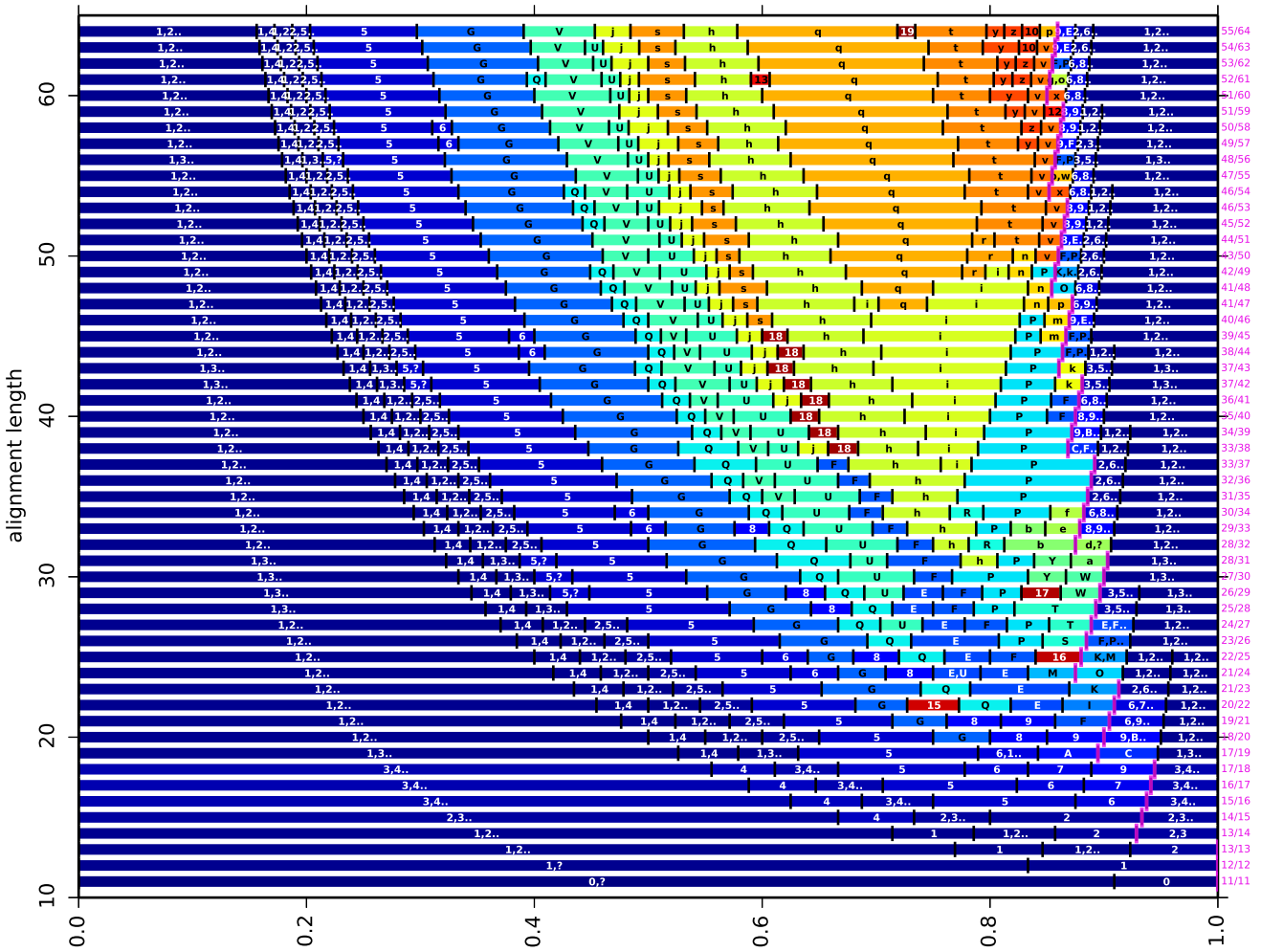
```

```

c = 1110110010111,11110011000000001010111
e = 111011001010111,111110010000000010100111
f = 111011001010111,111100010000000010010111
i = 111011010111,110110010100010111
n = 11101001110111,111100010010010111
q = 11101001010111,11101001000100010111
r = 11101001010111,1110101000110001011
t = 111010011010111,1101101000001000100111
y = 111010011010111,1111000010001000110101
z = 1110100110111,1101010110000000110011

```


Dirac (n:2,w:10)



```

0 = 1111111111,1011111111
1 = 1111101111,1110111111
2 = 1110111111,1111110101
3 = 1111111111,1110100111
4 = 1111111111,1111010111
5 = 1110111111,1111100111
6 = 1101111111,1111100011
7 = 1101011111,1111010011
8 = 1101010111,1111010011
9 = 1101010111,1111001001
A = 1101010111,1111001001
B = 1101010111,1111001001
C = 1110101111,1110100011
D = 1101110111,1110100111
E = 1101101111,1110001001
F = 1101101111,1110100010
G = 1101101111,1111010101
H = 1011101111,1110101011
I = 1011010111,1110100010
J = 1110101111,1110010001
K = 1110101111,1110001000
L = 1101101111,1110100010
M = 1110101111,1110001000
N = 1101011111,1111000010
O = 1100010010,1110101100

```

```

P = 1110110111,11101000100111
Q = 1110101111,111010100111
R = 1110110111,11100100100011
S = 111010010111,1110100001000111
T = 111001010111,1110100001000111
U = 1110110111,11100100100111
V = 1110110111,111010010111
W = 111001010111,11101000100000111
X = 111001010111,111010001000010111
Y = 1110100100111,111010000010000111
Z = 111010010111,111010100000100011
a = 111010100111,111010001000000111
b = 111010010111,111010100000100111
c = 111010010111,111001000000010111
d = 111010010111,111001000000010011
e = 1101001010111,111001000000010011
f = 1101001010111,11100010000000100111
g = 11101010111,1110010010001011
h = 11101010111,1110010010001011
i = 11101010111,11010010001011
j = 11101010111,11101010010011
k = 1110110111,11100100100011
l = 1101101111,111001010111
m = 1110101111,1110000100011011

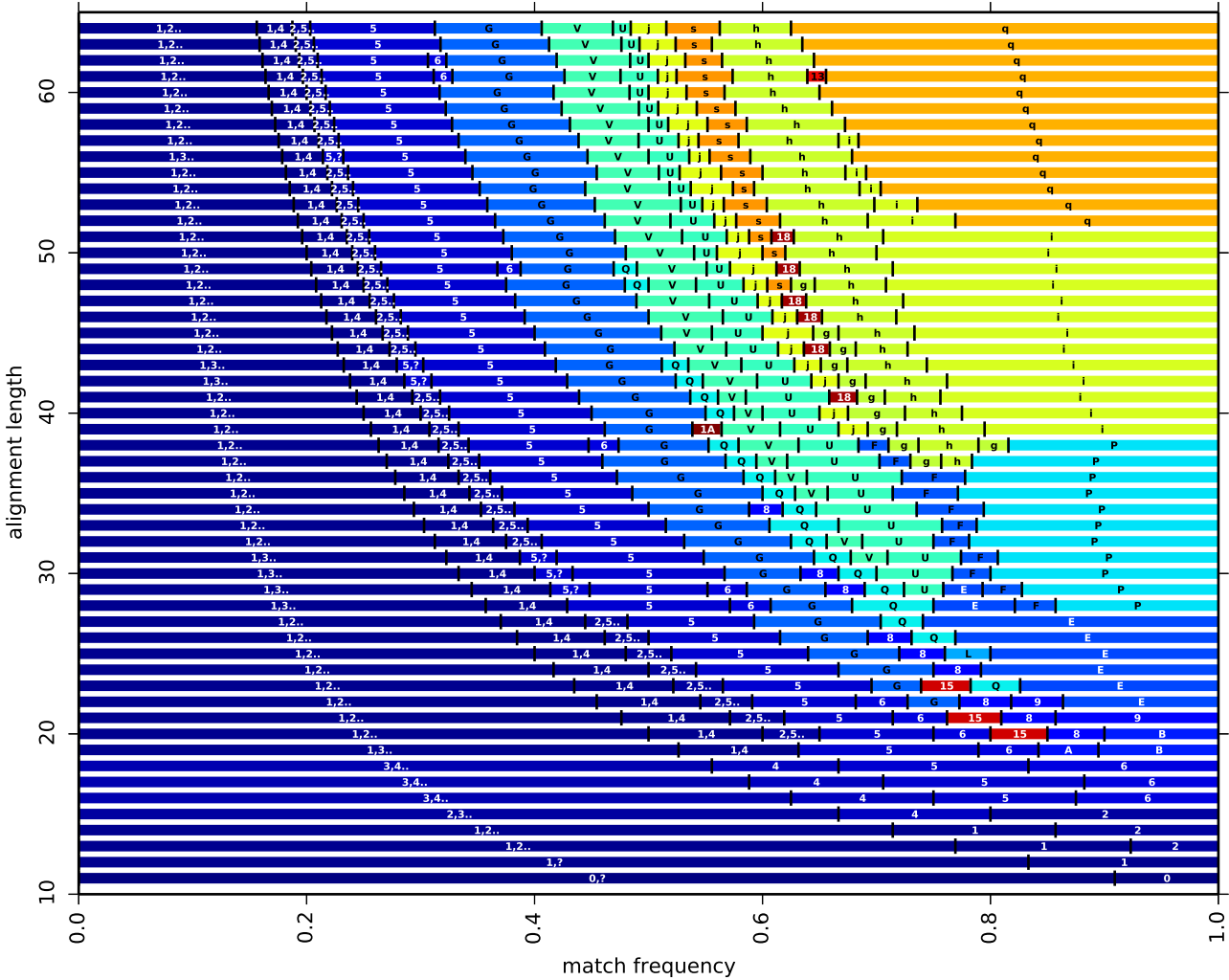
```

```

n = 1110100110111,1110001001001011
o = 11011010111,11011000000101011
p = 11011010111,11011000000010101
q = 1110100101011,1110100100010001011
r = 1110100101011,111010001000100111
s = 11011101011,1110010010010111
t = 1110100101011,1101010000100010011
u = 11101010111,110010100000101011
v = 11011010111,110101000000101001
w = 111001010111,1110100000100101011
x = 1110101111,10101000010010111
y = 1110100101011,11100001000100010101
z = 111010010111,1101010100000010011
10 = 11011010111,110011000000010101
11 = 1110010100111,11100010000001001011
12 = 1101010111,1111001000010101
13 = 11101010111,11101000100000111
14 = 11101010111,11110001001001
15 = 11011010111,11110010111
16 = 11101010111,111001000100111
17 = 111010010111,111010000100001011
18 = 11101010111,111010000100111
19 = 1101010010111,11101001000010111
1A = 11101010111,110011010111

```

$$\sum_0^x \text{Heaviside}(n;2,w:10)$$



```

0 = 1111111111,1011111111
1 = 1111111111,1111011111
2 = 1110111111,111111101011
3 = 1111111111,111101101111
4 = 1111111111,111110111111
5 = 1110111111,111110101111
6 = 1110111111,1111100010111
7 = 1101011111,11110110010111
8 = 110101101111,11110110010111
9 = 111011011111,11110010001111
A = 111010111111,11110011010111
B = 110111011111,11110010010111
C = 111101011111,11110110010111
D = 110111101111,11110100101111
E = 111011101111,111100100101111
F = 111011101111,11110100100010111
G = 110111011111,11111011010111
H = 101111011111,11110110101111
I = 110111010111,1111010000110111
J = 111101011111,1111001000101111
K = 111101011111,11110001010001111
L = 110111011111,1111010010010111
M = 111101011111,11110001000101111
N = 111011011111,111110000100011101
O = 11000100110101111,11010111100010011

```

```

P = 111011101111,11101000100101111
Q = 111011011111,1111010101001111
R = 1110110101111,111100100100010111
S = 11101001101111,11110100001000110111
T = 11100110101111,11110100001000010111
U = 111011101111,11110010100101111
V = 111011101111,111010010101111
W = 11100110101111,11110100010000001111
X = 11100110101111,11110100010000010111
Y = 111010011001111,111101000001000010111
Z = 11101100101111,111011010000001000111
a = 11101011001111,11101100010100000111
b = 11101100101111,1110100100000010100111
c = 11101100101111,1110011000000001010111
d = 11101100101111,1110011000000001010111
e = 110110010101111,11110010000000010100111
f = 110110010101111,111100010000000010010111
g = 1110101101111,1110100110001010111
h = 1110101101111,111100100100010111
i = 1110110101111,110110010100010111
j = 1110110101111,1110101100100111
k = 111011011111,11110010010001111
l = 111011011111,111100101101111
m = 111011011111,111100001000111011

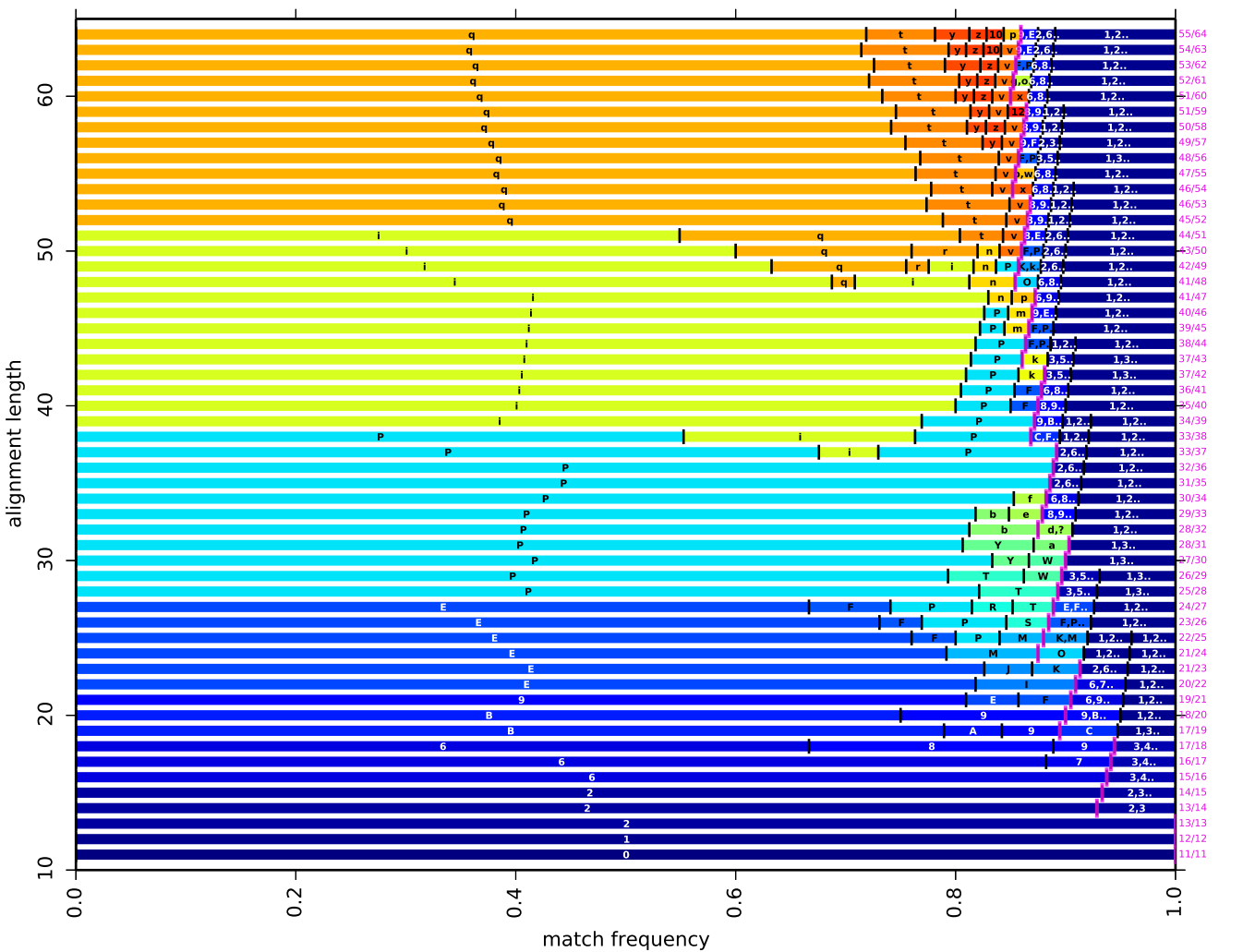
```

```

n = 11101001110111,111100010010010111
o = 1101110101111,11011100000011010111
p = 1101110101111,11011100000001101101
q = 111010011010111,11101001000100010111
r = 111010011010111,11101010001100010111
s = 1101111010111,11110010010010111
t = 111010011010111,110110100001000100111
u = 1110110101111,11001101000001010111
v = 1101110101111,11101110000001010011
w = 11100101100111,11110000010010100111
x = 111011011111,1010110000011001111
y = 111010011010111,1111000010001000110101
z = 11101001101111,1111000101000000110011
10 = 1101110101111,1110011100000001101011
11 = 1110010110010111,111100001000010010111
12 = 110110101111,111110011000010101
13 = 11101010110111,1110100100010001111
14 = 111011011111,1111000010010101
15 = 110111101111,11111001101111
16 = 1110101101111,1111001000100101111
17 = 11101001101111,11110100001000010111
18 = 1110110110111,11101010001001111
19 = 1101010011010111,1111010010000101111
1A = 111101101111,11100111010111

```

$$\sum_x^1 \text{Heaviside}(n;2,w:10)$$



```

0 = 1111111111,1011111111
1 = 1111111111,1110111111
2 = 1110111111,111111101011
3 = 1111111111,11110101111
4 = 1111111111,11110101111
5 = 1110111111,11111010111
6 = 1110111111,1111100010111
7 = 1101011111,11110100010111
8 = 1110101111,11111010100111
9 = 1110101111,11110010100111
A = 1110101111,1111001010111
B = 1101101111,1111010010111
C = 1110101111,1111010010111
D = 1101110111,1111010011111
E = 1110110111,111100010010111
F = 1110110111,11110100100010111
G = 1101101111,1111101010111
H = 1011101111,1111010101111
I = 1101101011,111101000010111
J = 1110101111,111100100010111
K = 1110101111,11110001010001111
L = 1101101111,111101001001111
M = 1111010111,1111000100010111
N = 1110101111,11110000100011101
O = 1100010010101111,11010111000100111

```

```

P = 1110110111,11101000100101111
Q = 1110101111,1111010100101111
R = 111011010111,111100100100010111
S = 111010010111,1111010000100010111
T = 111001010111,1111010001000010111
U = 1110110111,1111001010010111
V = 1110110111,111010101101111
W = 111001010111,11110100010000001111
X = 111001010111,11110100010000010111
Y = 1110100100111,111101000001000010111
Z = 111011001011,11101010000001000111
a = 111010100111,11101000100100000111
b = 111010010111,1110100100000010100111
c = 111011001011,111001000000001010111
d = 111011001011,111001000000001001111
e = 11011001010111,1111001000000010100111
f = 11011001010111,111100010000000010010111
g = 11101010111,11101001100010111
h = 11101010111,111100100100010111
i = 11101010111,11010010000101111
j = 11101010111,1110101100100111
k = 1110110111,11110010010001111
l = 1101101111,11110010101111
m = 1110110111,111100001000111011

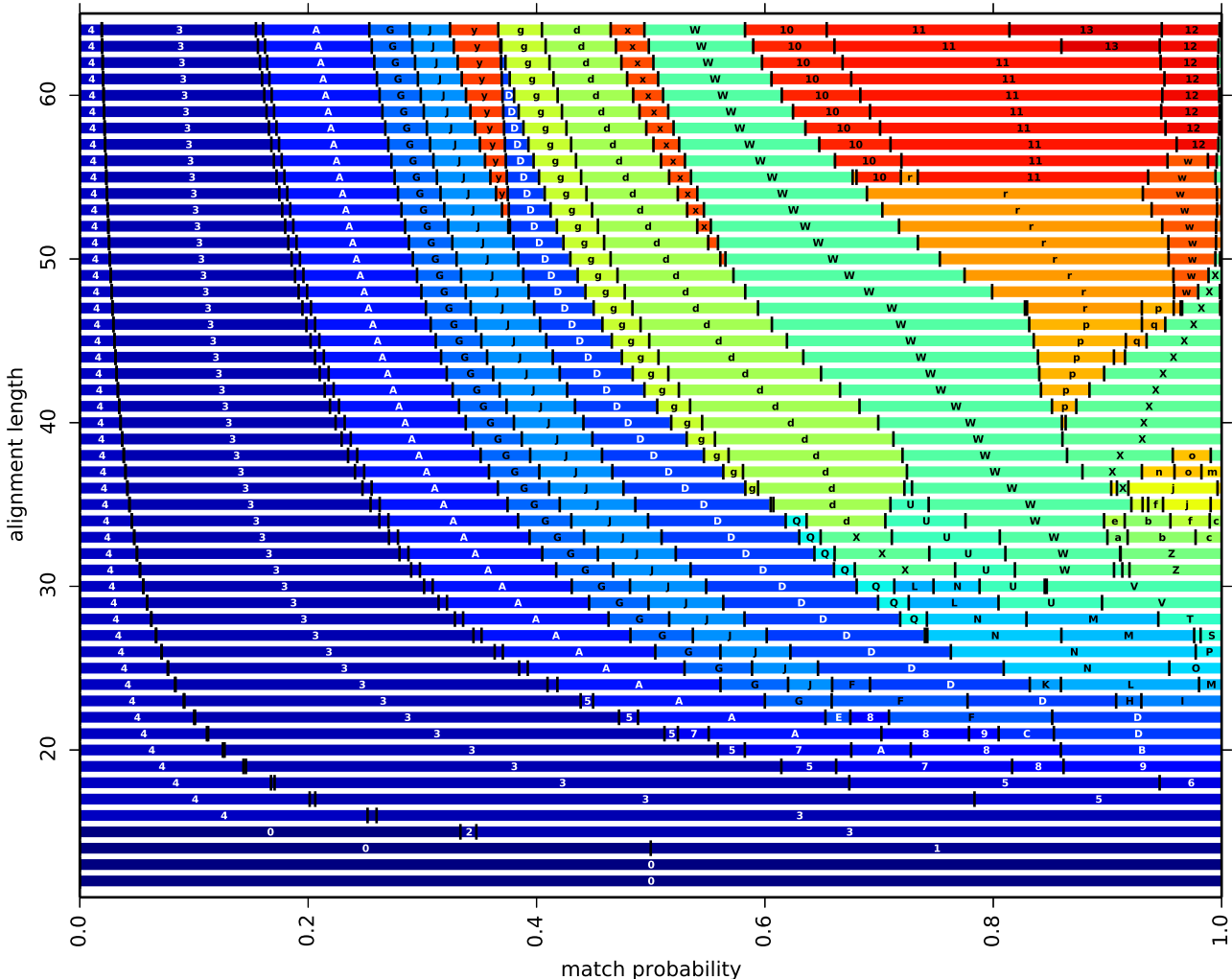
```

```

n = 1110100110111,111100010010010111
o = 11011010111,110110000001010111
p = 11011010111,1101100000001010101
q = 11101001010111,11101001000100010111
r = 11101001010111,111010001000100010111
s = 110111010111,111100100010010111
t = 111010011010111,110110100001000100111
u = 111011010111,11001101000001010111
v = 11011010111,1110111000000101001
w = 111001010111,111010000010010100111
x = 1110101111,110101000010010111
y = 1110100101011,111100001000100010101
z = 111001010111,11010101000000100111
10 = 11011010111,110011100000001010101
11 = 111001011001011,11100010001000010010111
12 = 11011010111,111110011000010101
13 = 11101010111,1110100100010001111
14 = 1110101111,11110001000100101
15 = 1101110111,1111100101111
16 = 11101010111,11110010001001111
17 = 111010010111,11110100001000010111
18 = 11101010111,11101000010010111
19 = 110101001010111,111010010000100010111
1A = 11101010111,11100111010111

```

Bernoulli (n:2,w:11)



```

0 = 1111111111,11110111111
1 = 11011111111,11111001111
2 = 1111111111,11110101111
3 = 11101111111,11111010111
4 = 1111111111,11110111111
5 = 11101111111,1111110010111
6 = 11101011111,11110111001011
7 = 11101111111,1111100010111
8 = 11101011111,11111001000111
9 = 11101011111,111100010010111
A = 110111110111,1111100011111
A = 110111110111,1111100011111
B = 11101011111,111110001001111
C = 11101011111,111110001010111
D = 11110101111,111100100010111
E = 110111101111,111100011010111
F = 11101011111,111110001010111
G = 110111101111,111101001110111
H = 11101011111,1111100010100111
I = 111101101111,1111010010001111

```

```

J = 111011101111,111100101010111
K = 111011011111,1111001010010111
L = 111011011111,11110100010010111
M = 111101101111,111101000100010111
N = 111101101111,11110010010001111
O = 111010111111,1111100001000110111
P = 111010111111,1111100000100011011
Q = 111101101111,11110100010010111
R = 111011010111,111110000100010111
S = 111011010111,111101000100010111
T = 111101010111,1111010001001001111
U = 111011010111,111101000100010111
V = 111101010111,111101000100010111
W = 11101011010111,111101000100010001111
X = 111101101111,11101000110010111
Z = 11110011010111,11110001000100010111
a = 11101010010111,1111010000100010010111
b = 11101010100111,1111010000010001001111
c = 11110100110111,111101010000000100111

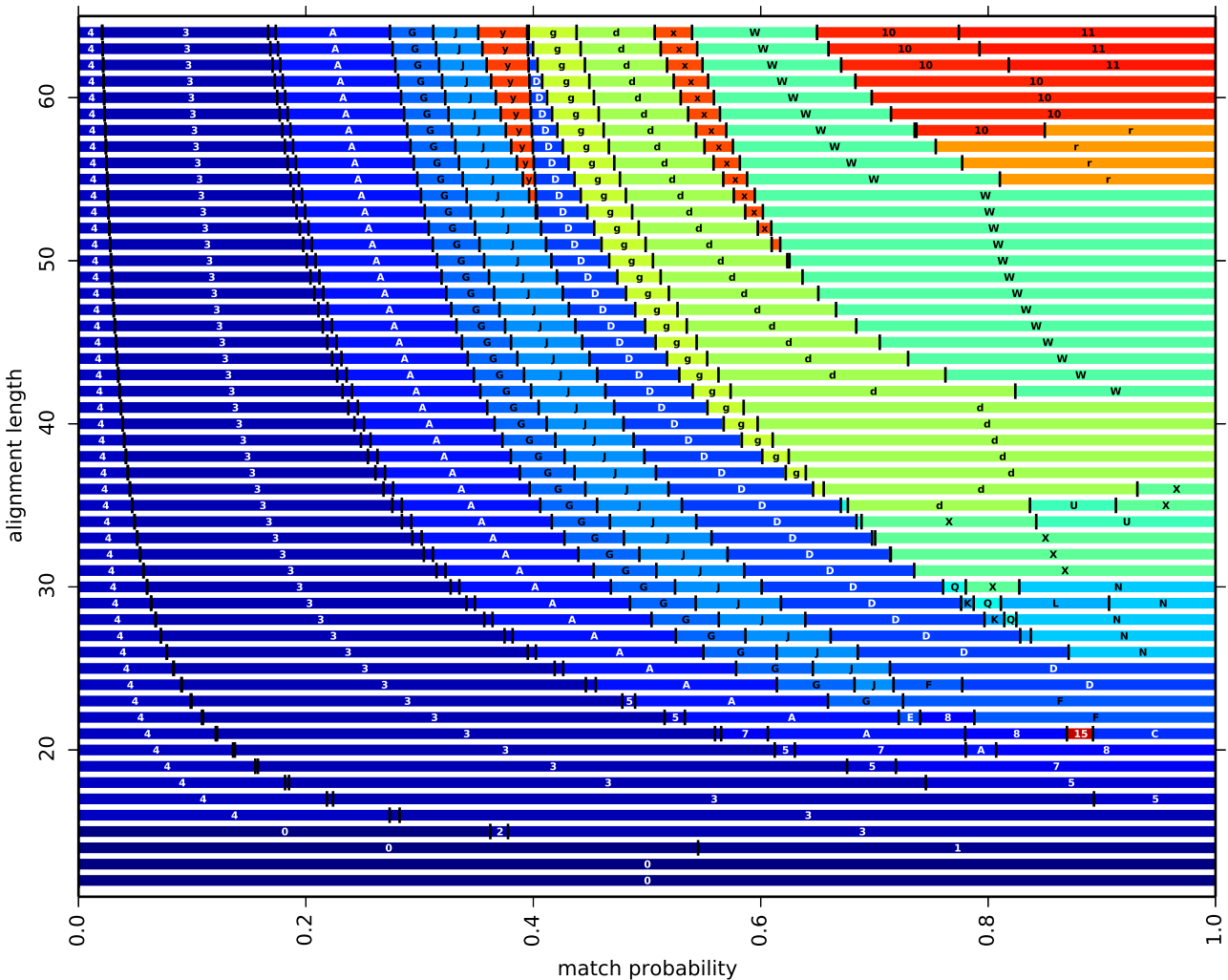
```

```

d = 1110101101111,111010011000101111
e = 11101010010111,1111010000100000101111
f = 11101010100111,11110100001000001001111
g = 1110101010111,111101000010111
j = 11101001010111,111100101000000010010111
m = 11101001010111,11110010010000000010001111
n = 1110101010111,111100101000000001001111
o = 11101001010111,1111001001000000010010111
p = 1110101010111,111101010001000101111
q = 1110101010111,1110100100110001111
r = 11101010010111,11100101100001010111
w = 1110101010111,111010100100000110111
x = 1110101010111,1111000110001010111
y = 1110101110111,11110100010111
10 = 11101001010111,111010010001100010111
11 = 111001101010111,111010000100000101111
12 = 111001101010111,111001000100000101111
13 = 1110010110010111,11101010000100100010111

```

\int_0^x Hit Integration (n:2,w:11)



```

0 = 1111111111,11110111111
1 = 1101111111,11111010111
2 = 1111111111,11110101111
3 = 1110111111,11111010111
4 = 1111111111,11110111111
5 = 1110111111,1111110010111
7 = 1110111111,1111100101111
8 = 11101101111,1111101001111
A = 11011111011,1111100011111
C = 11101011111,1111100010111

```

```

D = 111101110111,111100101001111
E = 11011101111,111110010101111
F = 111011011111,1111100011010111
G = 110111101111,111101001110111
J = 111011101111,1111001011010111
K = 111011101111,111100101001111
L = 111011101111,11110100010010111
N = 111101110111,11110010010001111
Q = 111101110111,11101100010010111
U = 1110111010111,111101001000100111

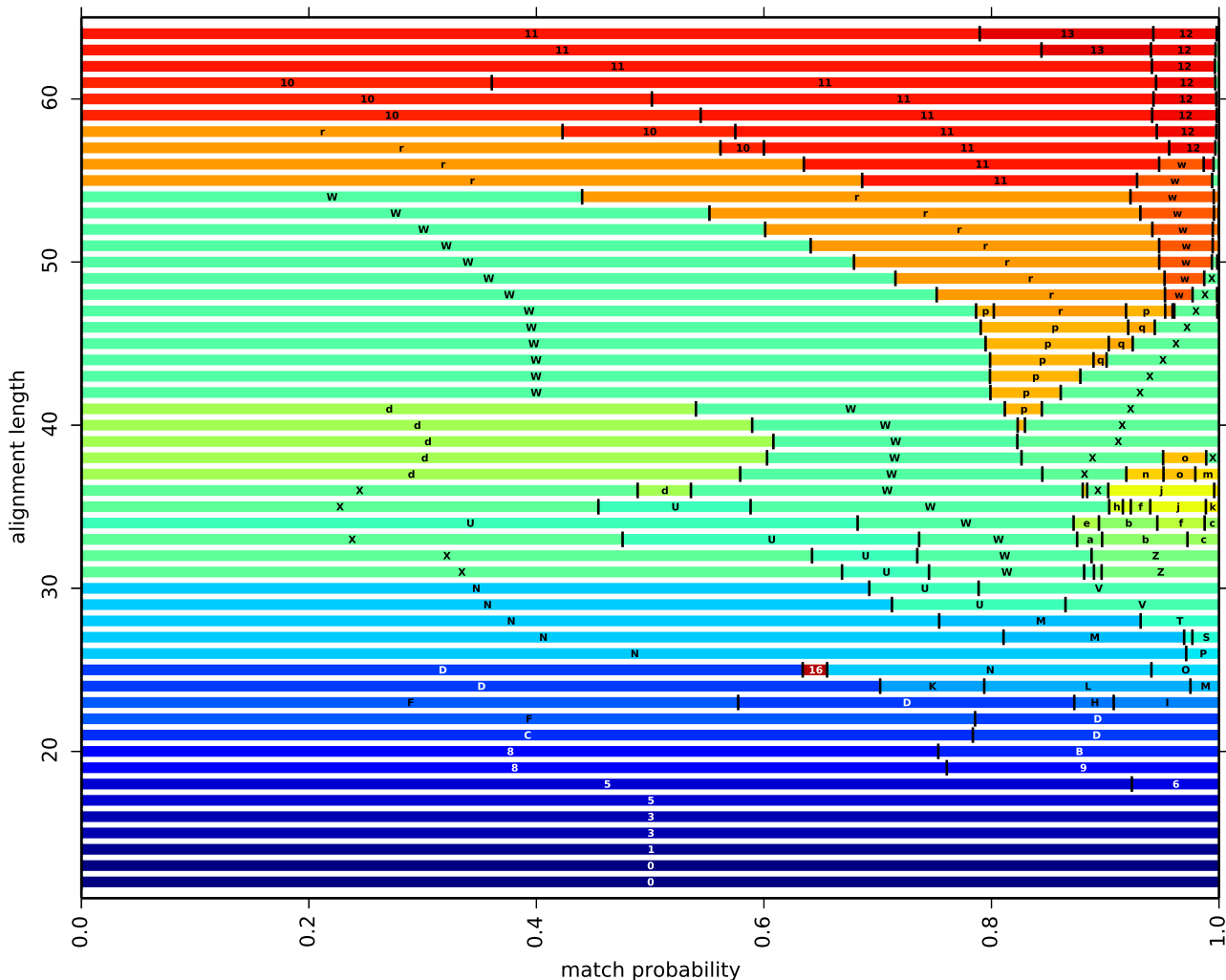
```

```

W = 11101011010111,11110100100010001111
X = 111101110111,1111010001100101111
d = 111010110111,1111010011000101111
g = 1110110110111,111101010001010111
r = 1110101100110111,111100101100001010111
x = 11101011011011,1111000110001010111
y = 1101011110111,1111011000101111
10 = 111011001010111,111010010001000010111
11 = 111001101101011,111010001001000010111
15 = 111011101111,111110010110111

```

\int_x^1 Hit Integration (n:2,w:11)



```

0 = 1111111111,1111011111
1 = 1101111111,1111101011
3 = 1110111111,1111101011
5 = 1110111111,1111100101
6 = 1110110111,1111011100101
8 = 1110110111,111101010011
9 = 1110101111,1111001100101
B = 1110101111,111100100011
C = 1110111111,1111100010101
D = 1110110111,1111001010011
F = 1110101111,1111000110101
H = 1110101111,111100010011
I = 1110110111,1111010000011
K = 1110110111,1111001000101
L = 1110110111,1111010001001
M = 1110110111,1111010001001

```

```

N = 1111011011,111100100100011
O = 1110101111,11110000100011
P = 1110110111,111100000100011
S = 1101101011,111100001000101
T = 1111010101,111101000100101
U = 1110110101,111101001000101
V = 1110011010,111101000100010
W = 1110101101,111101001000101
X = 1111011011,111010001100101
Z = 1111001010,111100010000101
a = 1110101100,1111010000100101
b = 1110101100,11110100000100101
c = 1111000101,11110101000000010
d = 1110101101,111101000100010
e = 1110101001,11110100001000010
f = 1110101010,11110100001000010

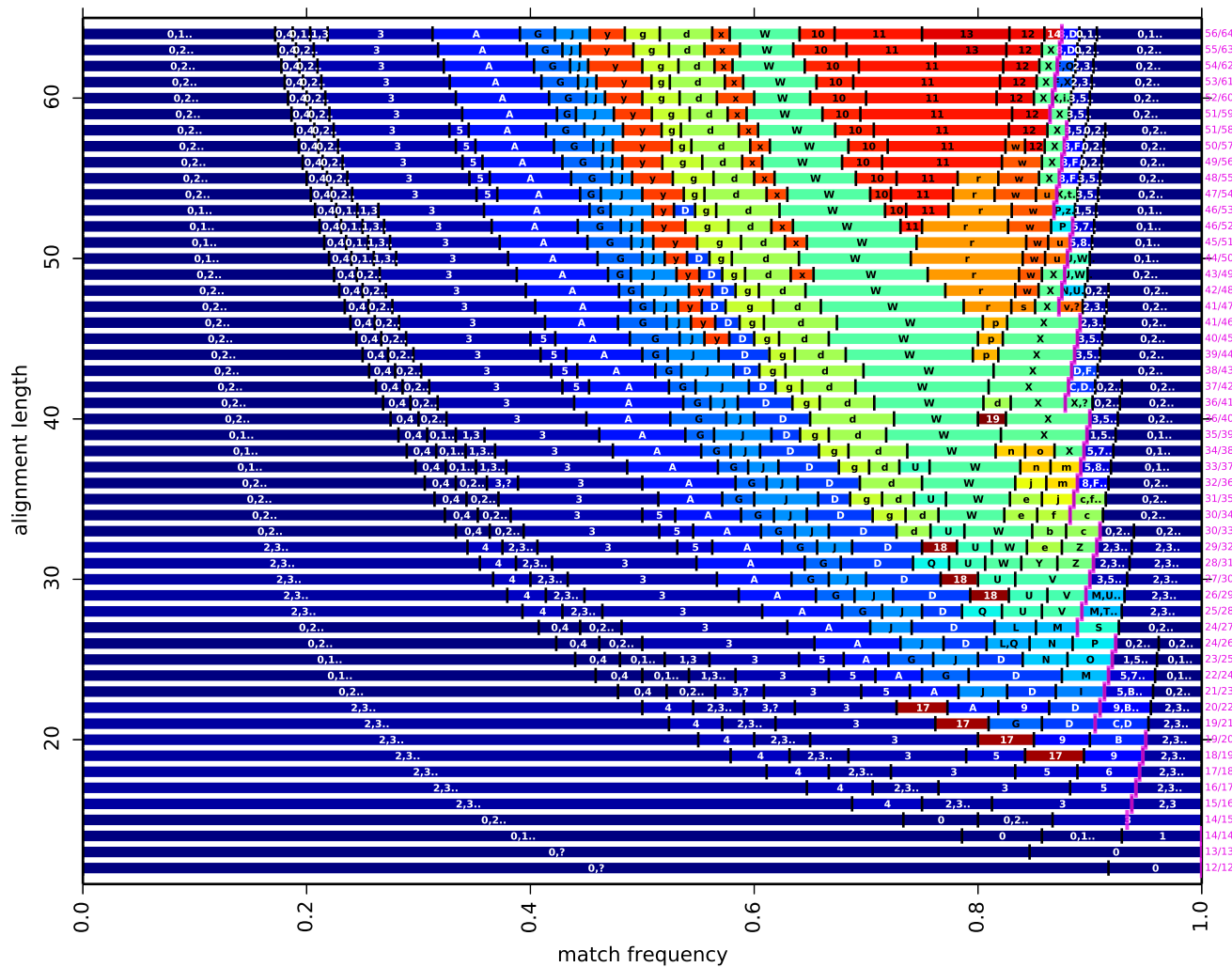
```

```

h = 1110100101,1111010000010000101
j = 1110100101,1111001010000000010
k = 1110100101,1111001000000000010
m = 1110100101,111100100000000000010
n = 1110100101,1111001010000000010
o = 1110100101,1111001000000000010
p = 1110101010,111101001000100011
q = 1110101010,111101001000100011
r = 1110101010,11110010100001010
w = 1110101010,111101010010000010
10 = 1110100101,11110100010001001
11 = 1110011010,11110100010000010
12 = 1110011010,111100100010000010
13 = 1110010100,1111010100001000001
16 = 1110110111,111100100101011

```

Dirac (n:2,w:11)



```

0 = 1111111111,1111011111
1 = 1101111111,111110101111
2 = 1111111111,111101101111
3 = 1110111111,111110110111
4 = 1111111111,111110111111
5 = 1110111111,111110010111
6 = 11101101111,11110111001011
7 = 1110111111,111110010111
8 = 11101101111,11110101100111
9 = 11101011111,111100110010111
A = 110111110111,111101001111
B = 11101101111,111110010100111
C = 11101101111,1111110001010111
D = 11110110111,111100101001111
E = 11011101111,111110011010111
F = 11101101111,1111100011010111
G = 11011110111,11111010110111
H = 11101101111,1111100010100111
I = 11110110111,1111010001001111
J = 11101101111,1111001011010111
K = 11101101111,1111001010010111
L = 11101101111,1111010001001111
M = 11110110111,111101000100010111
N = 11110110111,11110010010001111
    
```

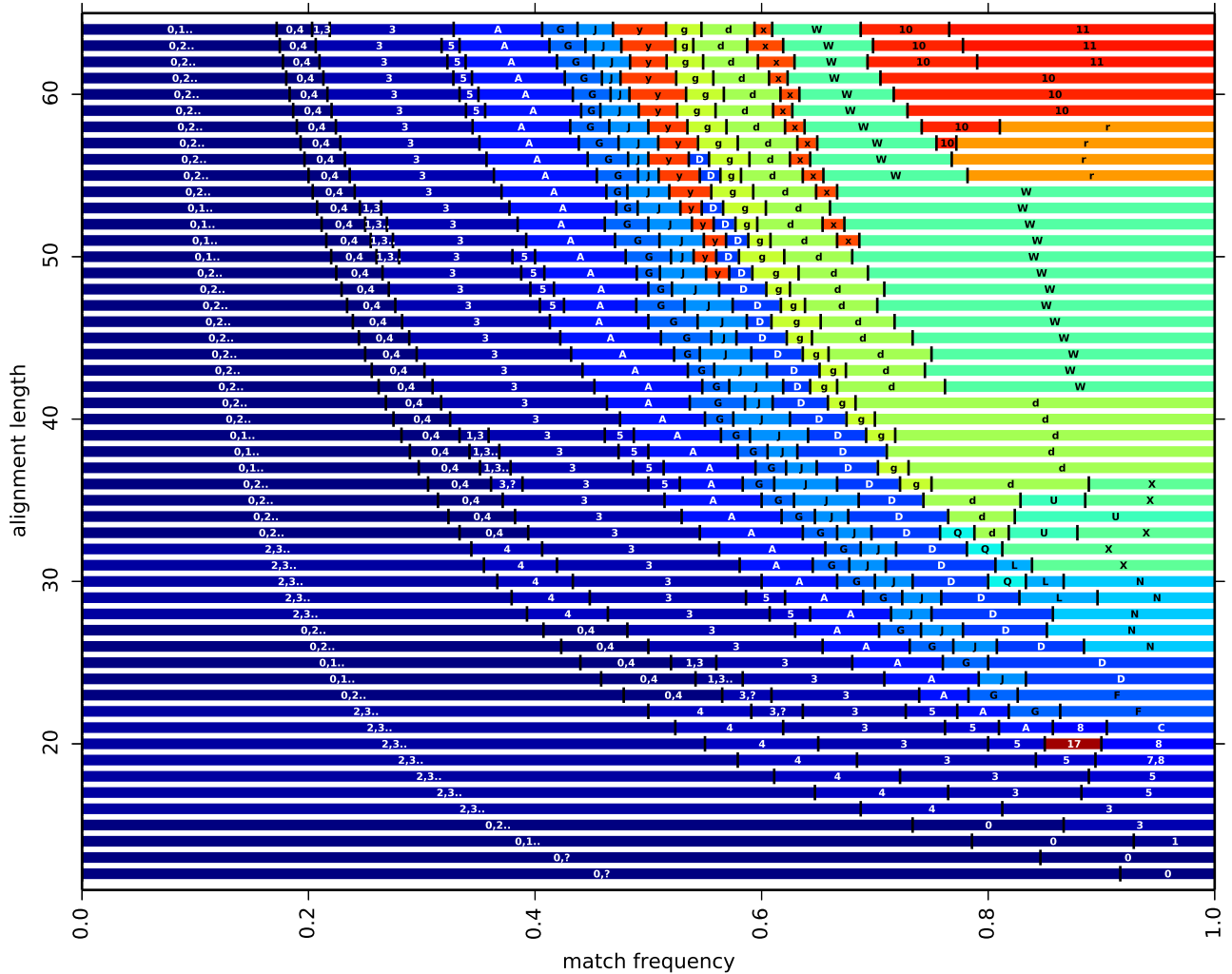
```

O = 111101101111,1111100001000111011
P = 111011011111,11110000100011011
Q = 111101101111,111101000100101111
R = 111011011111,1111100010001001111
S = 110111011111,1111100001000110111
T = 111101101111,111101000100101111
U = 111011101111,111101001000101111
V = 111100110111,1111010001000100111
W = 111011011011,1111010001000110111
X = 11110110111,111010001100101111
Y = 111100110111,1111010001000100111
Z = 111100110111,11110001000100010111
a = 11101011001011,11110100001000100111
b = 11101011001011,11110100001000100111
c = 11110100110111,111101010000000100111
d = 111011011111,11101001100010111
e = 11101011001011,111101000010000110111
f = 11101011001011,111101000010000100111
g = 111010110111,111101010001010111
h = 1110110010111,1110110000100001010111
i = 1110101100111,111100100001000100111
j = 11101001010111,11110010000000100111
k = 1110100101011,1111001000000001010111
l = 111011101011,111011000010010111
    
```

```

m = 111011001010111,1111001001000000010001111
n = 111011001010111,1111001010000000010100111
o = 111011001010111,1111001001000000010100111
p = 11101101101011,111101001000100011111
q = 11101101101011,11101001001100011111
r = 111011011001011,11100101100001010111
s = 11101101101011,1111001100010010111
t = 111011011011,1111000101000110111
u = 11110110111,1101001010010010111
v = 11101110111,111100001001010111
w = 11101101101011,11010100100000111011
x = 11101101101011,1111000110001010111
y = 11010111011,11110110001010111
z = 111011011011,11100110000001010111
10 = 11101100101011,11101010001100010111
11 = 11100110101011,1110100010010000101111
12 = 11100110101011,1110100010010000101111
13 = 111001011001011,111010100001000100010111
14 = 11101101111,10101000010011111
15 = 11101101111,1111001011010111
16 = 11110110111,1111001001010111
17 = 11101101111,11110110101011
18 = 111011011011,111101010001001111
19 = 111011011011,1110101000010001001111
    
```

$$\sum_0^x \text{Heaviside}(n:2,w:11)$$



```

0 = 1111111111,11110111111
1 = 1101111111,111110101111
2 = 1111111111,11110101111
3 = 1110111111,11111010111
4 = 1111111111,11110101111
5 = 1110111111,111111001011
6 = 1110101111,11110111001011
7 = 1110111111,1111100010111
8 = 1110101111,11110101000111
9 = 1110101111,11110010010111
A = 110111110111,1111010011111
B = 1110101111,11110010001111
C = 1110101111,111110001010111
D = 111101101111,111100101001111
E = 11011101111,111100011010111
F = 1110101111,111100011010111
G = 110111101111,11110100110111
H = 1110101111,1111000010001111
I = 111101101111,111101000100011111
J = 11101101111,111100101010111
K = 11101101111,11110010100101111
L = 11101101111,11110100010010111
M = 11110110111,1111010001000101111
N = 11110110111,111100100100011111

```

```

O = 111101011111,1111100001000111011
P = 111101011111,1111100000100011011
Q = 111101101111,111101000100101111
R = 111010101111,1111100010001001111
S = 1101110101111,1111100001000101111
T = 111101010111,1111010001001001111
U = 1110111010111,1111010010001001111
V = 1111001010111,11110100010001001111
W = 11101011010111,11110100010001001111
X = 111101101111,11101000100101111
Y = 11110011010111,11110100010001001111
Z = 11110011010111,111100010001000101111
a = 111010110010111,1111010000100010010111
b = 111010101100111,1111010000010001001111
c = 11110100110111,1111010100000001000111
d = 111010101111,111010110001001111
e = 111010110010111,11110100001000001010111
f = 11101010100111,11110100001000001001111
g = 1110101010111,111101010001001111
h = 111011001010111,1110110000100001010111
i = 11101010100111,11110010000010001001111
j = 11101001010111,11110010000000010010111
k = 11101001010111,11110010000000001010111
l = 1110111010111,1110110000100101111

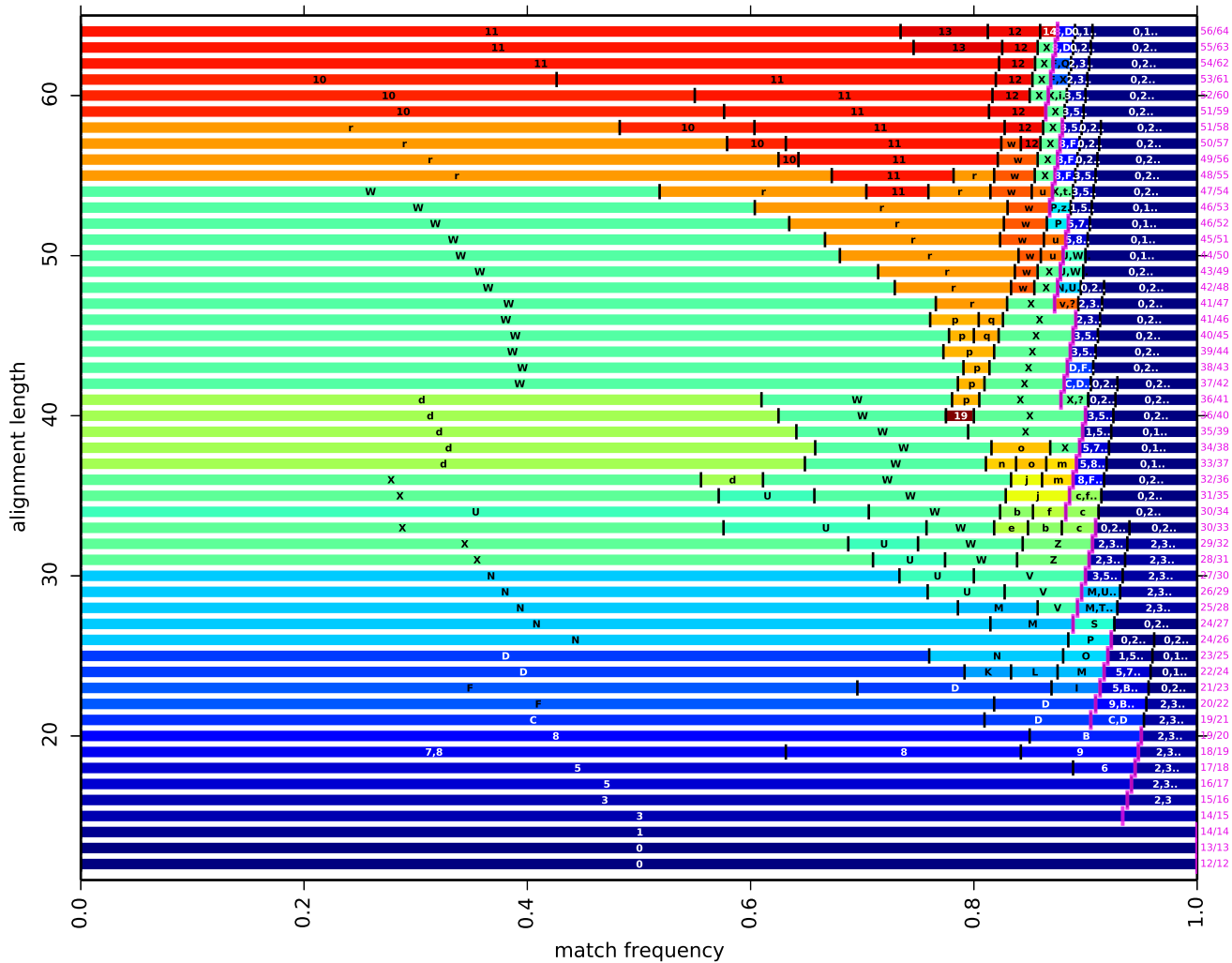
```

```

m = 11101001010111,11110010010000000010001111
n = 111011001010111,1111001000000001000111
o = 111011001010111,111100100000000101001111
p = 11101011010111,11101001000100011111
q = 11101011010111,1110100100010001111
r = 111010110010111,1110010100001010111
s = 11101011010111,1111001100010010111
t = 111011010111,111100010001000110111
u = 11110110111,11101010101001001111
v = 1110110111,111100001001010111
w = 11101011010111,1110101001000001110111
x = 11101011010111,111100010001010111
y = 1101011101011,111101000101111
z = 111010110111,111001100000010010111
10 = 11101100101011,1110101000100010111
11 = 11100110101011,1110100010010000101111
12 = 11100110101011,11100100010010000101111
13 = 111001010010111,11101000010001000100111
14 = 1110101111,10101000010011111
15 = 11101101111,111100101010111
16 = 11101101111,111100100101010111
17 = 11101011111,1111011101011
18 = 111010110111,111101010001001111
19 = 11101011010111,1110101000010001001111

```


$$\sum_x^1 \text{Heaviside}(n:2,w:11)$$



```

0 = 1111111111,11110111111
1 = 1101111111,111110101111
2 = 1111111111,11110101111
3 = 1110111111,11111010111
4 = 1111111111,11110111111
5 = 1110111111,111111001011
6 = 1110101111,11110111001011
7 = 1110111111,1111100010111
8 = 1110101111,11111010100111
9 = 1110101111,11110010010111
A = 110111110111,1111010011111
B = 1110101111,11110010001111
C = 1110101111,111110001010111
D = 1111010111,1111001010010111
E = 1101110111,11110011010111
F = 1110101111,11110001010111
G = 11011110111,1111010110111
H = 1110101111,111100010100111
I = 1110101111,1111010001001111
J = 1110101111,111100101010111
K = 1110101111,1111001010010111
L = 1110101111,1111010001001111
M = 1110101011,111101000100010111
N = 1110101011,11110010010001111

```

```

O = 111010101111,111100001000111011
P = 111010111111,11110000100011011
Q = 111010101111,111101000100101111
R = 111010101111,111100010001001111
S = 110110101111,111100001000101111
T = 111010101111,111101000100101111
U = 111011010111,111101001000101111
V = 111001010111,11110100010001001111
W = 1110101010111,11110100100010001111
X = 111010110111,111010001000101111
Y = 111001010111,11110100010001001111
Z = 111001010111,11110001000100010111
a = 1110101010010111,1111010000100010010111
b = 111010101001111,1111010000010001001111
c = 11101001010111,1111010100000001000111
d = 1110101010111,111010011000101111
e = 1110101010111,11110100001000001010111
f = 11101010100111,11110100001000001001111
g = 1110101010111,1111010100001010111
h = 11101001010111,1110100000100001010111
i = 11101010100111,11110010000010001001111
j = 11101001010111,11110010000000010010111
k = 11101001010111,11110010000000001010111
l = 111011010111,1110100000100101111

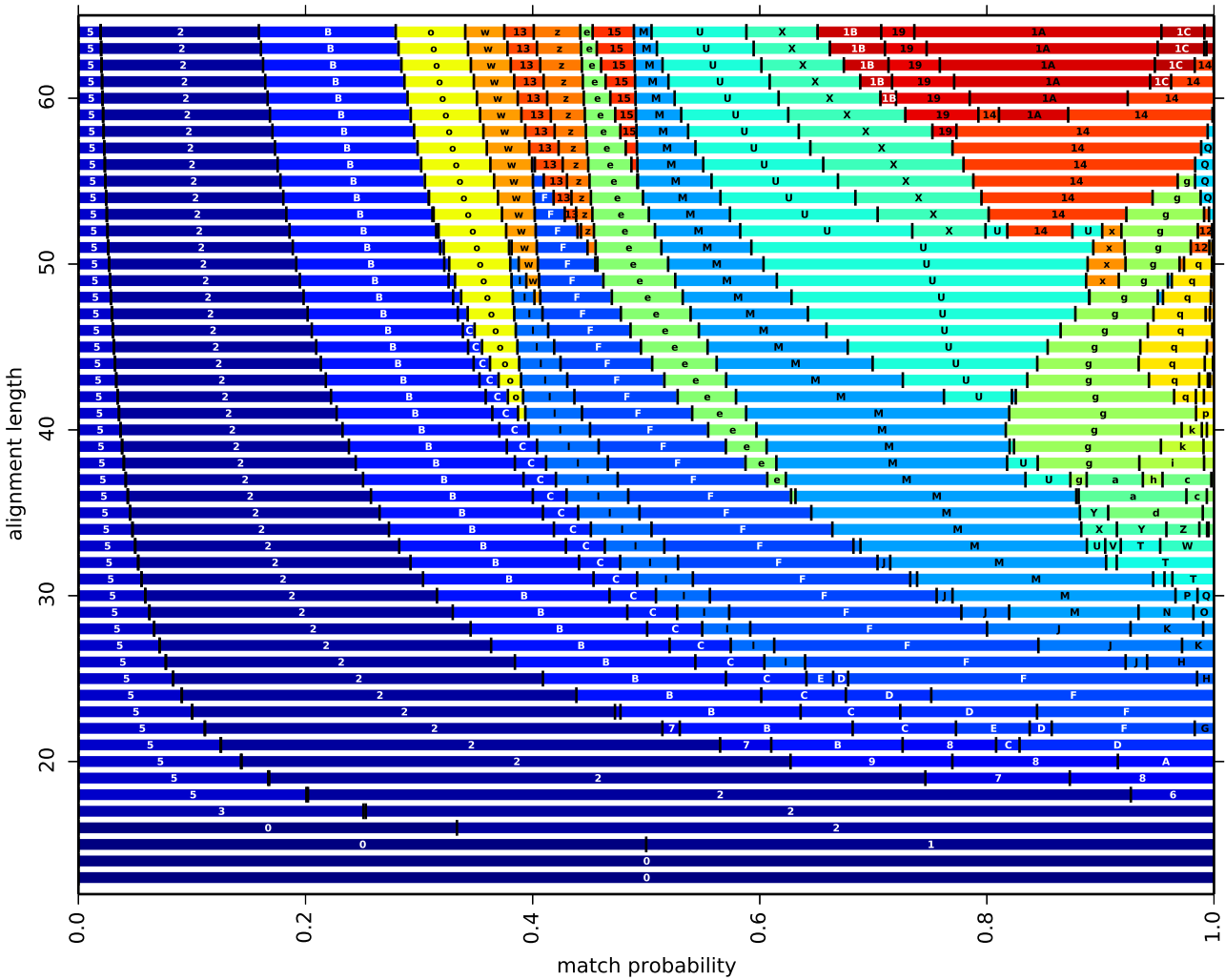
```

```

m = 11101001010111,11110010010000000010001111
n = 11101001010111,11110010100000000101001111
o = 11101001010111,11110010010000000101001111
p = 11101010101011,11101001000100010011111
q = 11101010101011,1110100100100010011111
r = 11101010010111,111001010000101010111
s = 11101010101011,111100100001001010111
t = 1110101010111,11110001010001010111
u = 11101010111,1110100101010010101111
v = 11101010111,11110000100101010111
w = 11101010101011,1110101001000001110111
x = 11101010101011,11110001000101010111
y = 1101011101011,11101000010101111
z = 1110101010111,11100110000001010111
10 = 1110100101011,1110101000010001010111
11 = 1110010101011,11101000100100000101111
12 = 1110010101011,111001000100100000101111
13 = 111001010010111,111010100000100010001111
14 = 11101011111,1010100001001111111
15 = 11101010111,111100101010111
16 = 11101010111,111100100101010111
17 = 11101011111,111101101010111
18 = 111010101011,111010100001001111
19 = 111010101011,1110101000010001001111

```

Bernoulli (n:2,w:12)



```

0 = 111111111111,111101111111
1 = 110111111111,111111010111
2 = 110111111111,111111010111
3 = 111111111111,111101111111
5 = 111111111111,111111011111
6 = 111101101111,11101111101011
7 = 110111111111,1111101010111
8 = 111011011111,11111011001011
9 = 110111111111,11111100101111
A = 110110111111,1111010110010111
B = 110111111011,11111001011111
C = 110111011111,111111001101011
D = 110110111111,1111110001101011
E = 111101101111,1111100101101011
F = 111101100111,11111001010010111
G = 110111010111,11101001100110011
H = 111011011011,111110001000110111
I = 111101101111,1111001011010111
J = 111101101111,11111001001001111
K = 111011011011,1111100001001010111
L = 110111011011,1111001001000011111
M = 111011011011,1111001001000011111
N = 111101101111,1111101001000010111
O = 110111011011,11011100000001110111
P = 110110101101,111110010001000010111
Q = 111010011011,111101000001100101011
R = 111011011011,111110001001000100111
S = 111011011011,1111101000100100111
T = 111100110101,111110001001000100111
U = 111011011011,11110101000100100111

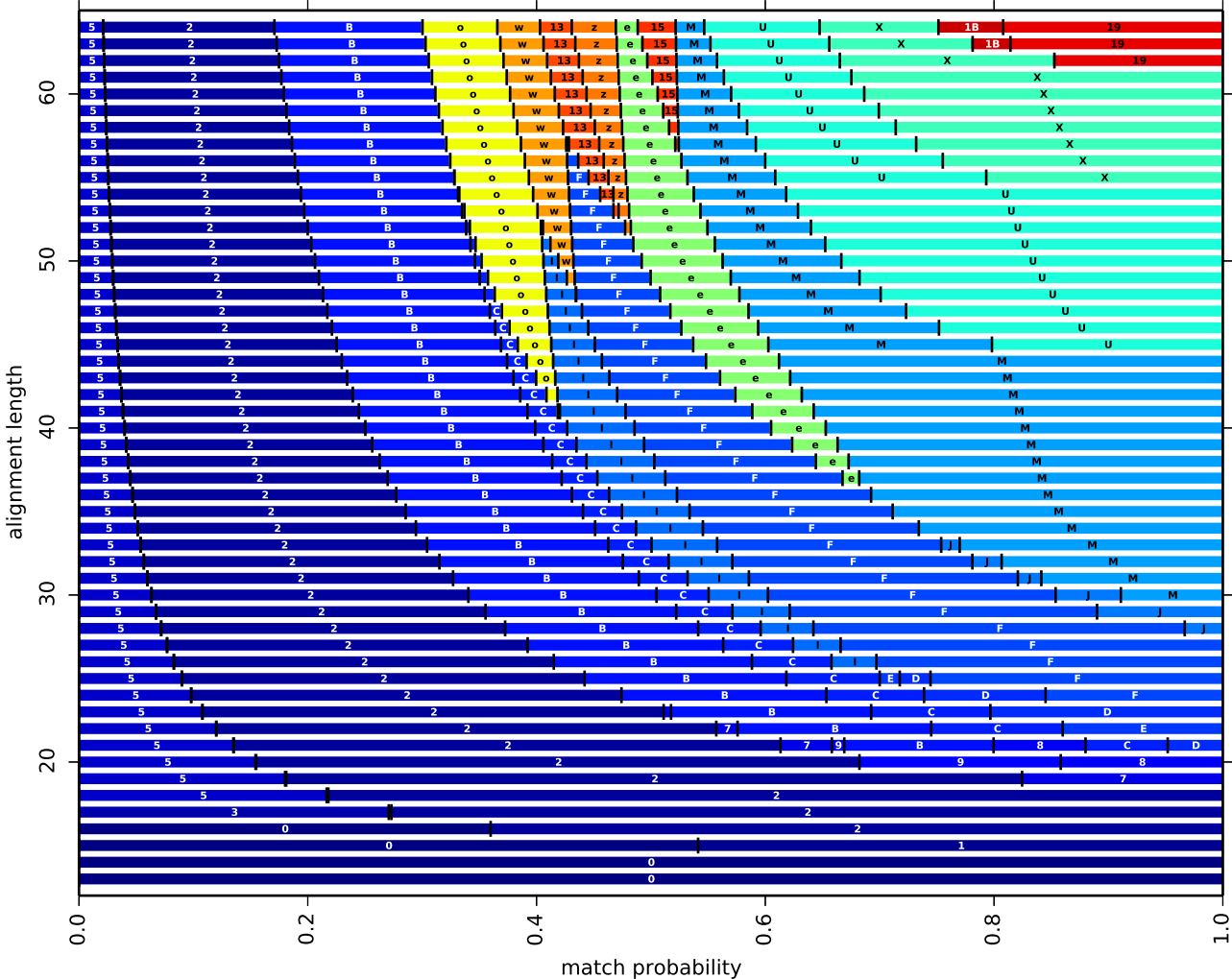
```

```

V = 111100101101,111101000100010010111
W = 111101011011,111110001000100100111
X = 111010011010,111110010001000010111
Y = 111100110101,1111101000010010010111
Z = 111100110101,1111100001001000100111
a = 111100110101,111110100010010000100111
c = 111100110101,11111001000100000010111
d = 111100110101,1111001000100010010111
e = 110111011011,111100100101010111
g = 111011101101,1111010100010010010111
h = 111100110101,111110010000100000100111
i = 111011011001,1111010000100100010111
j = 111101101101,11111001010100111
k = 111101100110,111110001010000000110010111
l = 110111110111,1111110100111011
m = 111101101111,1111100100010010111
n = 111011011011,1111010100010010111
o = 111101101111,1111100100010010111
p = 111101101111,1111100100010010111
q = 111011011011,11111001010010010111
r = 111101101111,11110101010100111
s = 111011011011,111101010001100010111
t = 111011011011,1111010100010010111
u = 111011011011,1111010100010010111
v = 111011011011,1111010100010010111
w = 111011011011,1111010100010010111
x = 111011011011,111101010001100010111
y = 111011011011,1111010100010010111
z = 111011011011,1111010100010010111
12 = 111011011011,111101000100100111
13 = 110111101011,111101001010111
14 = 111011011001,1111010100010000010111
15 = 111011011011,1111001010010010111
19 = 111011011001,11110100001010000111
1A = 111010011010,11110101000001100010111
1B = 111011010011,1111001000100010100111
1C = 111011011001,11101101000100010010111

```

\int_0^x Hit Integration (n:2,w:12)



```

0 = 111111111111,111101111111
1 = 110111111111,1111111010111
2 = 111011111111,1111111010111
3 = 111111111111,111101111111
5 = 111111111111,111110111111
7 = 111011111111,11111010110111
8 = 111010111111,111101110010111
9 = 111011111111,11111100101111
B = 110111111011,11111001011111
C = 110111011111,111111001101011
D = 111010111111,111110001010111
E = 111101110111,111110010110111
F = 111101101111,1111100101001111

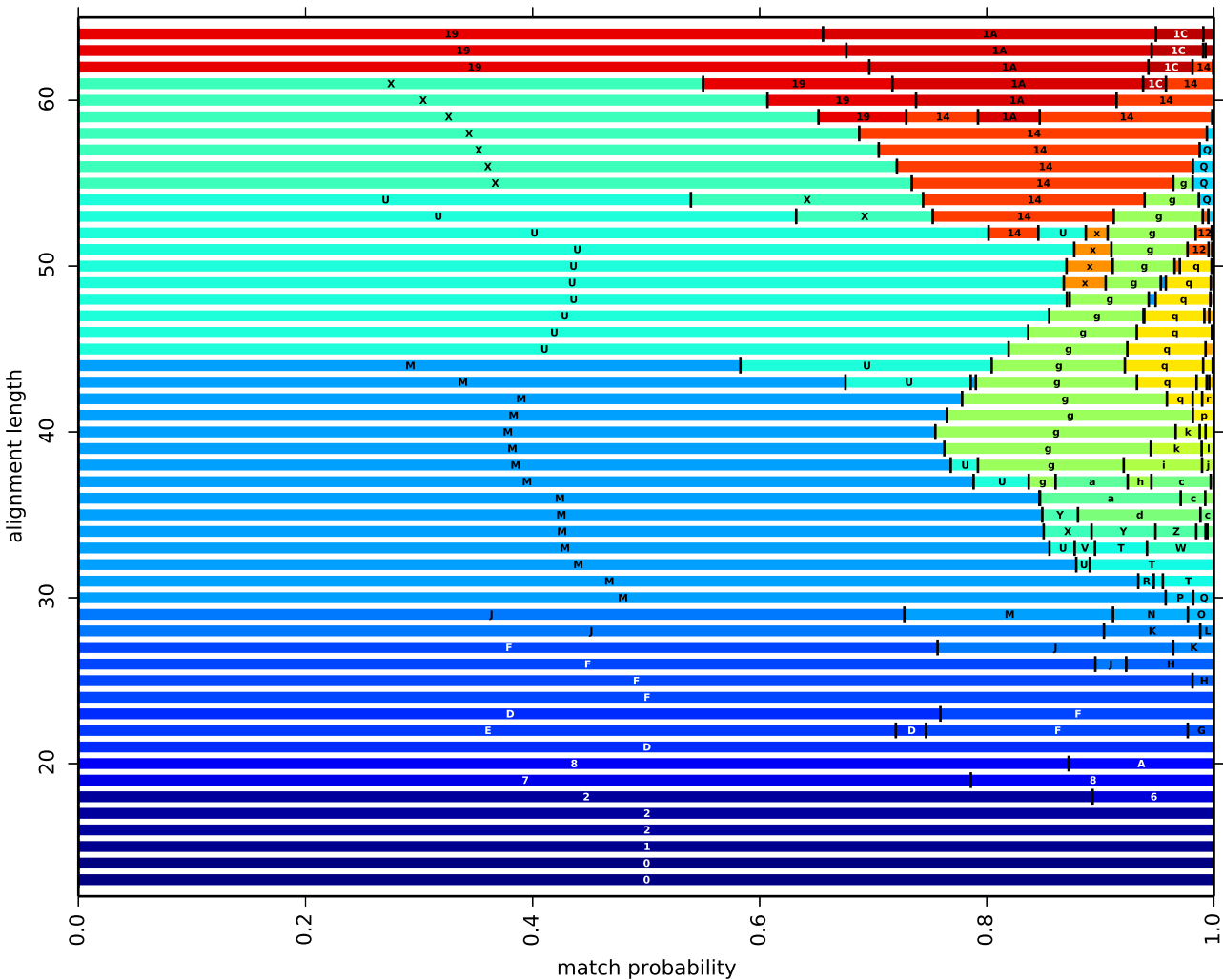
```

```

I = 1111011101111,11110010110101111
J = 1111011101111,111110010010001111
M = 11101110110111,11110010010100011111
U = 1110110110101111,111101010001001001111
X = 11101100110101111,1111001010001000101111
e = 111011101101111,111100101010101111
o = 110101111101111,1111110100111011
w = 11110110101111,11101011101100111
z = 111011011101111,1111010100100101111
13 = 110111110101111,111101000110110111
15 = 11101101101111,1111001010010010111
19 = 11101011000110111,11101100100010100001111
1B = 111010110100110111,11110010001000101001111

```

\int_x^1 Hit Integration (n:2,w:12)



```

0 = 111111111111,111011111111
1 = 110111111111,1111111010111
2 = 110101111111,1111111010111
6 = 1111011011111,11101111101011
7 = 1110111111111,11111010110111
8 = 1110110111111,1111101110010111
A = 1110110111111,11110101110010111
D = 1110110111111,1111100011010111
E = 1111011011111,11111001011010111
F = 1111011101111,11111001010010111
G = 1110111011111,111110011001100111
H = 11101101101111,111110001000101111
J = 1111011011111,1111100100101001111
K = 1111011101111,11111000010010101111
L = 1111101101111,11111000010010101111
M = 11101110110111,1111100100100011111
N = 1111011011111,1111100100000101111
O = 11101110110111,1110111100000001110111
P = 11011101101111,111110010001000101111
Q = 111010011101111,11111010000011001010111
R = 11101110110111,111110001000100101111
T = 111100110101111,1111100010010001001111
U = 11101101101111,111101010001001001111

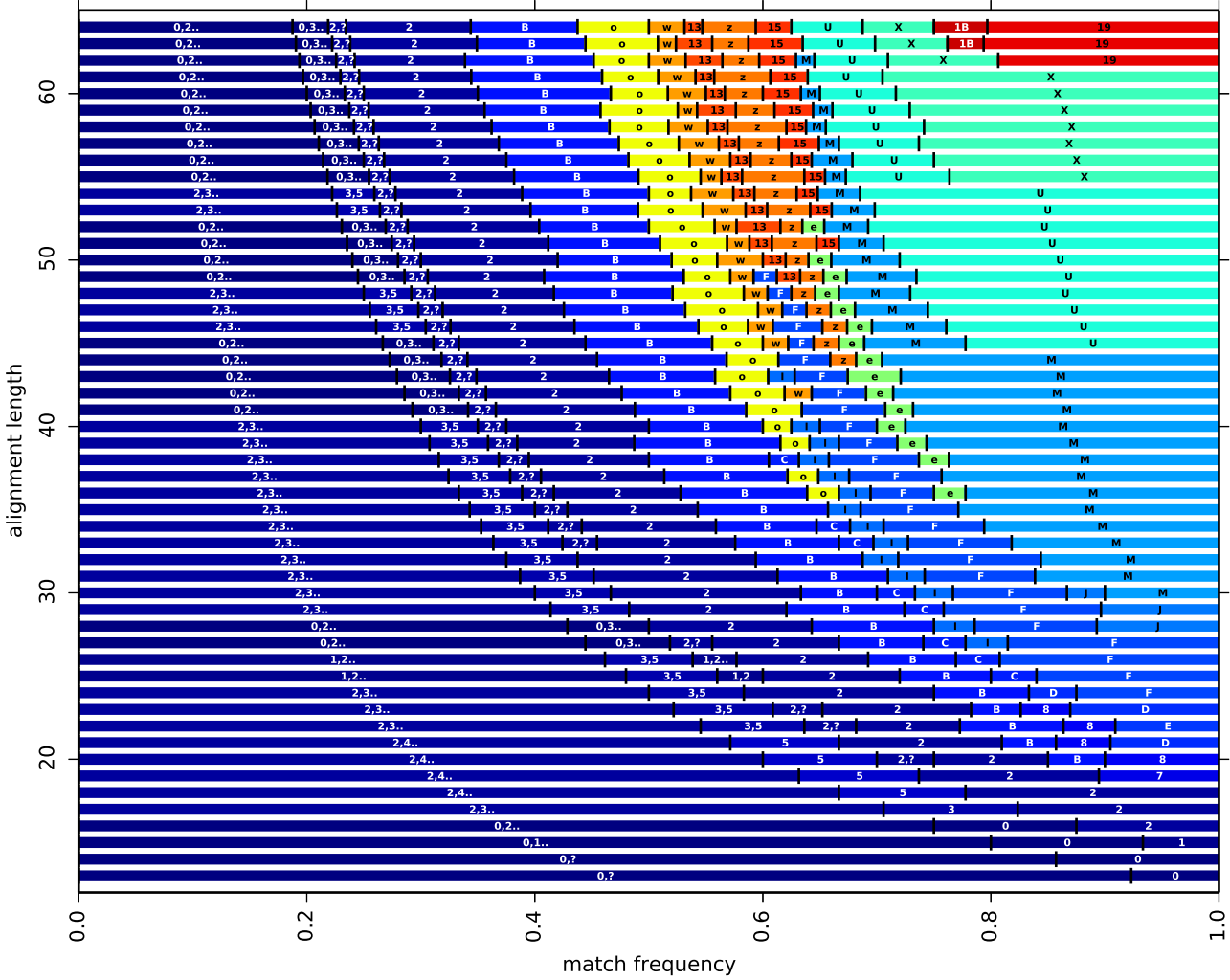
```

```

V = 1111001011101111,1111010001000100101111
W = 1111010101101111,111110001000100101111
X = 11101100110101111,11111001010001000101111
Y = 11110011010101111,111110100001001000101111
Z = 11110011010101111,11111000010010001001111
a = 11110011010101111,1111101000100100001001111
c = 11110011010101111,1111100100010000000101111
d = 11110011010101111,111110010001000100101111
g = 111011101101111,1110101000100100101111
h = 1111001101010111,111110010000100001001111
i = 1110101101100111,11111010000100100010001111
j = 111101011001111,11111010100000001001001111
k = 1111010100110111,111110001010000000110010111
l = 111101011001111,111110101000000010011000111
p = 1111011101111,11111001010001010111
q = 11101101110111,11111001010010010111
r = 111101101111,11111010010100110011
x = 111011011010111,1110101000100010111
12 = 111011011100111,111110100010100100111
14 = 1110101101100111,1111010100101000010111
19 = 11101011010011011,11101100100010100001111
1A = 11101001101011011,111010100000010001011011
1C = 111011011100111,111010100010001001001111

```


$$\sum_0^x \text{Heaviside}(n;2,w:12)$$



```

0 = 111111111111,111101111111
1 = 110111111111,111111101011
2 = 111011111111,111111101011
3 = 111111111111,111101111111
4 = 111111111111,111101101111
5 = 111111111111,111110111111
6 = 111101101111,111011111011
7 = 111011111111,111110101011
8 = 111011011111,11111011001011
9 = 111011111111,111110011011
A = 111011011111,111101011001011
B = 110111111011,11111001011111
C = 110111011111,111111001101011
D = 111011011111,1111110001101011
E = 111101101111,111110010101011
F = 111101101111,1111100101001011
G = 111011101011,11110100110011011
H = 111011011011,111110001000110111
I = 111101101111,1111001011010111
J = 111101101111,1111001001001111
K = 111101101111,11111000010010111
L = 111101101111,11110001001010111
M = 111011011011,111100100101001111
N = 111101101111,111110100100010111
O = 111011010111,111110000001110111
P = 110111010111,1111100100010010111
Q = 111010011011,1111010000110010111
R = 111101101011,111110001001001111
S = 111011010101,11111000100100010111
T = 111100110101,11111000100100010111
U = 111011010101,1111010100010010111
V = 111100101101,11111000100010010111
W = 111101010111,11111000100010010111
X = 111011001101,11110010100010010111
Y = 111100110101,11110100010010010111
Z = 111100110101,11111000100100010111
a = 111100110101,111110000100100010111
b = 111100110101,1111100000100010010111
c = 111100110101,11111001000100000010111
d = 111100110101,1111001000100010010111

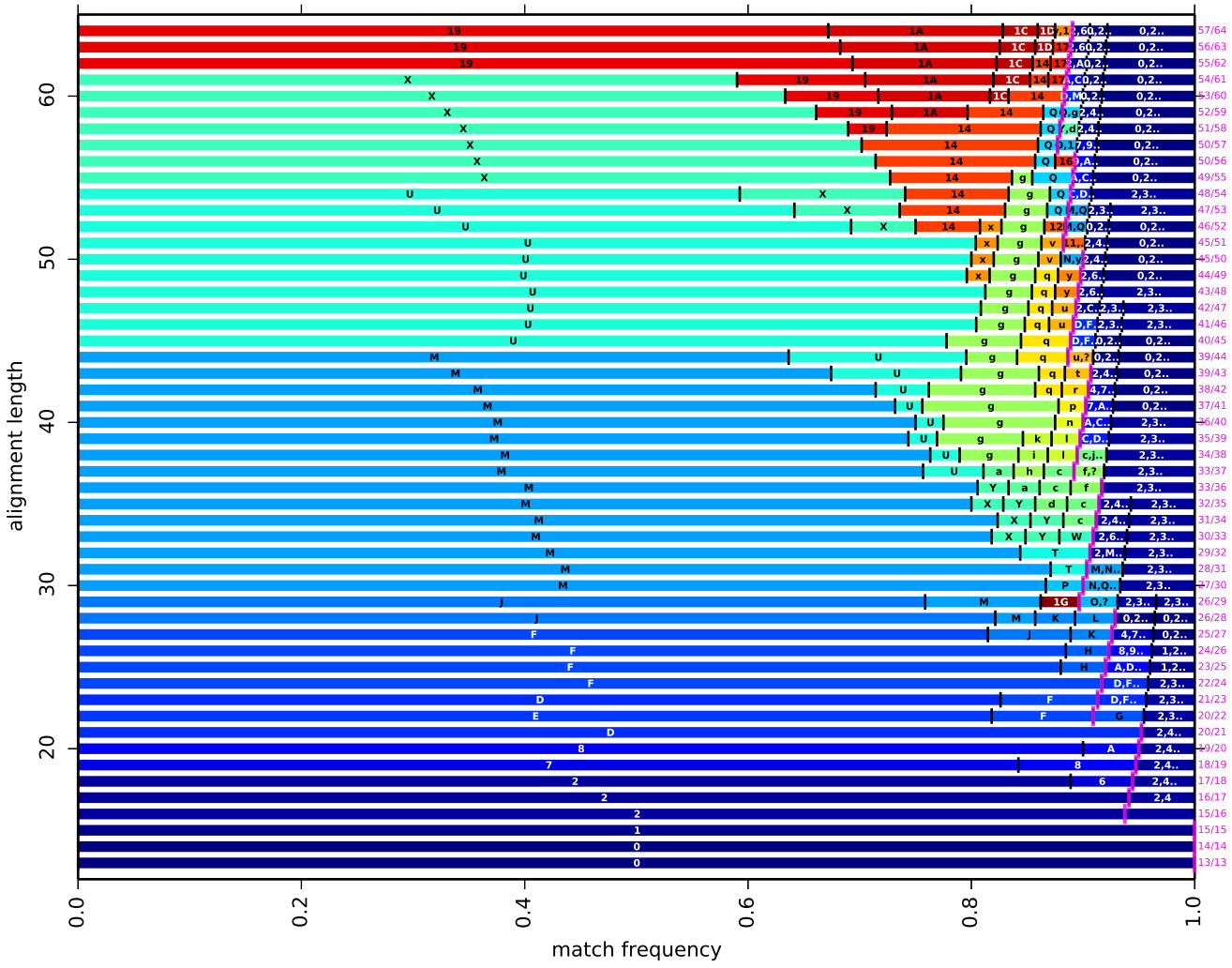
```

```

e = 111011101101,11110010010101111
f = 111100110101,11111000000100010010111
g = 111011101101,111010100010010010111
h = 111100110101,11111001000010000100111
i = 111011011001,11110100001001000100111
j = 111101010001,111101010000000100100111
k = 111101010111,1111000101000000011001011
l = 111101010011,1111010100000001001000111
m = 111101010111,11110001010000000110010011
n = 111101010111,11110000101000000011001011
o = 110101111011,111110100111011
p = 111101101111,11110010100101011
q = 111011011011,1111100101001001011
r = 111101101111,11111010010100110011
s = 111101101111,11111001000101011
t = 111011010111,11101001100110010111
u = 111011011111,111110001001010111
v = 111011011011,111100101100010111
w = 111101101111,11101011101100111
x = 111011011011,11110101000100010111
y = 111011011011,1011100000100110111
z = 111011011011,11101010010010111
10 = 111011011011,11110011001000101111
11 = 111011011011,11111010001001001111
12 = 111011011001,11111010001010010111
13 = 111011110101,11110100011010111
14 = 111011011001,1110101001000010111
15 = 111011011011,1111001010010010111
16 = 111011011011,10101110000000101111
17 = 111001011011,11101000100000101011
18 = 111101101111,1110100011001010111
19 = 111011010010,1110110010001010000111
1A = 111000110101,1111001010010010111
1B = 111011010010,11111001000100010100111
1C = 111011011001,11101010001000100111
1D = 10111100101101,111001100100000100101011
1E = 111011011001,11111010000100100010111
1F = 111011011011,11101100010010010111
1G = 111101101111,1111100010010010111

```

$$\sum_x \text{Heaviside}(n;2,w:12)$$



```

0 = 111111111111,111101111111
1 = 110111111111,111111100111
2 = 110111111111,111111010111
3 = 111111111111,111101111111
4 = 111111111111,111101101111
5 = 111111111111,111110111111
6 = 111101011111,1110111101011
7 = 110111111111,111110101011
8 = 111010111111,11111011001011
9 = 111011111111,11111100011111
A = 111010111111,1111010110010111
B = 11011111010111,11110001011111
C = 110111011111,111110001010111
D = 111010111111,111110001010111
E = 111101101111,1111100101010111
F = 111101101111,1111000100010111
G = 111011010111,111101001100100111
H = 111010101011,11110001000101111
I = 111101101111,11110010110101111
J = 111101101111,111100100010001111
K = 111101101111,111100001001010111
L = 111101010111,111100001001011111
M = 111101101011,1111001001000011111
N = 111101101111,11111010001000101111
O = 111101101011,11011100000000110111
P = 11011101010111,111110010000100111
Q = 11101001101111,1111010000011001010111
R = 111101101011,11110001000100101111
S = 11101101010111,1111010001001000101111
T = 11110010101111,111100010010001001111
U = 11101101010111,111101010001001001111
V = 11110010110111,1111010001000100101111
W = 11110101010111,111100010001000101111
X = 11101001010111,11011010001000101111
Y = 111100101010111,11110100001001000101111
Z = 11110010101011,111100001001000101111
a = 111100101010111,111101000100100001001111
b = 111100101010111,11011100000100001001111
c = 111100101010111,111100100010000000101111
d = 111100101010111,11110010001000100101111

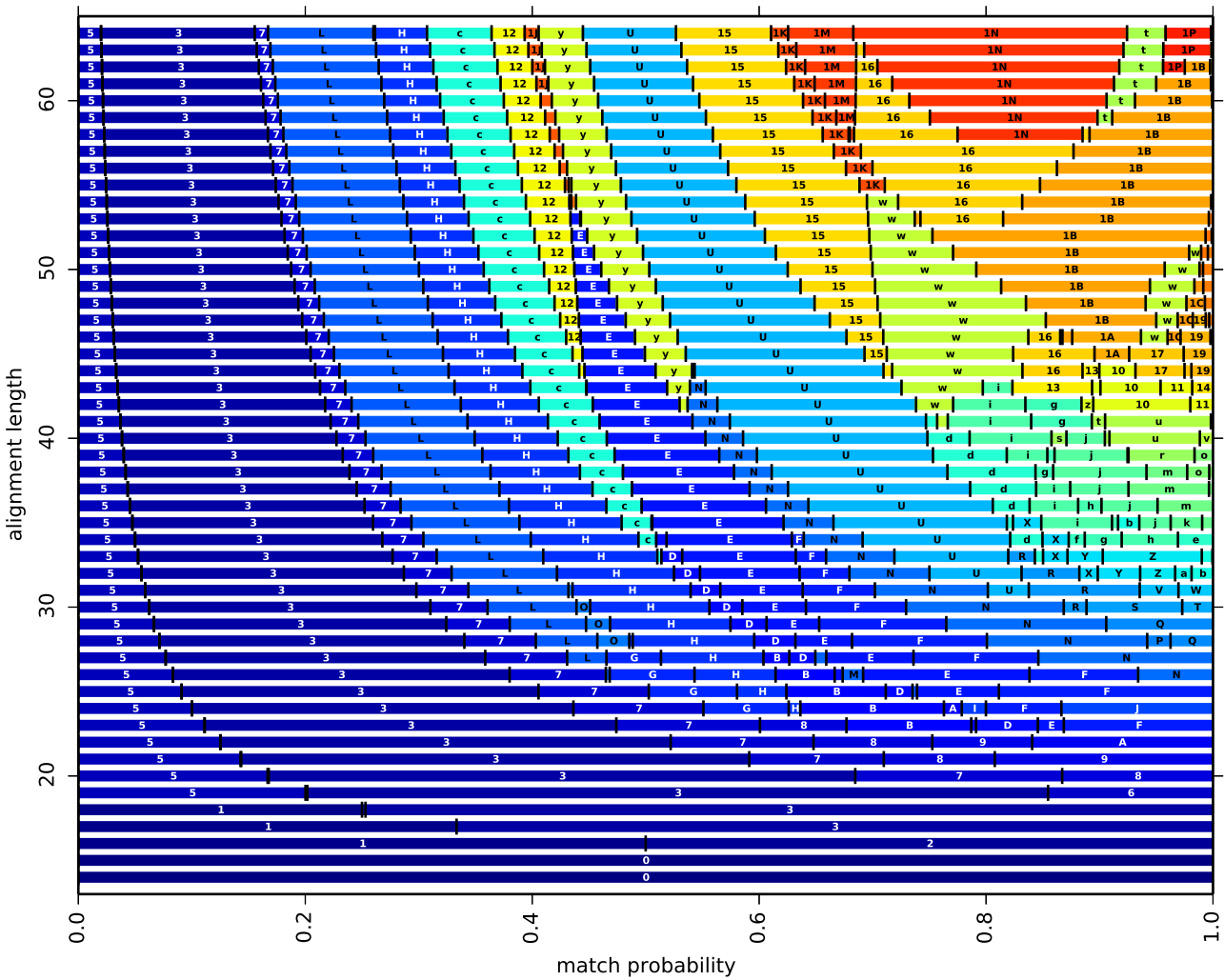
```

```

e = 111011101010111,1111001001010101111
f = 1111001101010111,1111000001000100101111
g = 111011101010111,1110101000100100101111
h = 1111001101010111,111110010000100001001111
i = 1110101101010111,111101000010010001001111
j = 11110101001111,11110101000000001001001111
k = 1111010100110111,11110001010000000110010111
l = 111101011001111,11110101000000010011000111
m = 1111010100110111,111100010100000001100100111
n = 1111010100110111,111100001010000000110010111
o = 11010111101111,1111110100111011
p = 1111011101111,111100101001010111
q = 11101011010111,11110010100010010111
r = 1111011101111,1111010010100110011
s = 111101101111,111101010000110111
t = 11101110101111,1110100110011001111
u = 11101101010111,111100010010101111
v = 11101011010111,11110010110000101111
w = 11110101010111,11101011101100111
x = 11101101010111,111101010001000010111
y = 111011101010111,101110000010011010111
z = 11101011010111,111010100100101111
10 = 1110101101010111,111100110010000101111
11 = 11101110101011,11110100001001001111
12 = 11101101100111,11110100001000100111
13 = 110111110101011,111101000101010111
14 = 111010110100111,11101010010010000101111
15 = 11101101101011,1111001010001001010111
16 = 11101110101011,101011100000000101111
17 = 111000101010111,11101010001000001010111
18 = 111101101111,11101000110010101111
19 = 1110101101001011,111010000100000100001111
1A = 1110100110101011,11101010000001000101011
1B = 1110101101001011,11110010001000101001111
1C = 111011010100111,110101010001000100101111
1D = 1011110010110101,11100110010000010010101011
1E = 111010110100111,111101000010010001010111
1F = 11101011010111,111010000100000101111
1G = 1111011101111,1111000100100101111

```

Bernoulli (n:2,w:13)



```

0 = 111111111111,110111111111
1 = 111111111111,111101111111
2 = 111011111111,110111111111
3 = 111011111111,111111101011
5 = 111111111111,111110111111
6 = 111011111111,111111011011
7 = 111011111111,111111010111
8 = 111011011111,111111001011
9 = 111011011111,11110111001011
A = 111101101111,111110111001011
B = 111011110111,11111010011011
D = 111011011111,111101011010111
E = 111101101111,111110010100111
F = 111011011111,1111010010100111
G = 111011111011,11111001011111
H = 110111110111,111110011110111
I = 111101101111,111110011010111
J = 111101101111,111110100100111
L = 111011101111,11111011101011
M = 111011101111,1111101001101011
N = 111011101111,111110010010111
O = 110111011111,11110111010111
P = 111011101111,1111001010010111
Q = 111011101111,1111100100100111
R = 111011011011,11110001010010111
S = 111101101111,1111100100101111
T = 111101110111,11110000100101111
U = 111011011011,11111001001001111
V = 111011011011,1111000100101111
W = 111101101111,11110000100100111
X = 111101101111,11111001000101111
Y = 111101101111,111110100100010111
Z = 111011010111,111110001000100111
a = 111011010111,111110001000100111
b = 111011001101,111110001000100111
c = 110101111011,1111110100111011

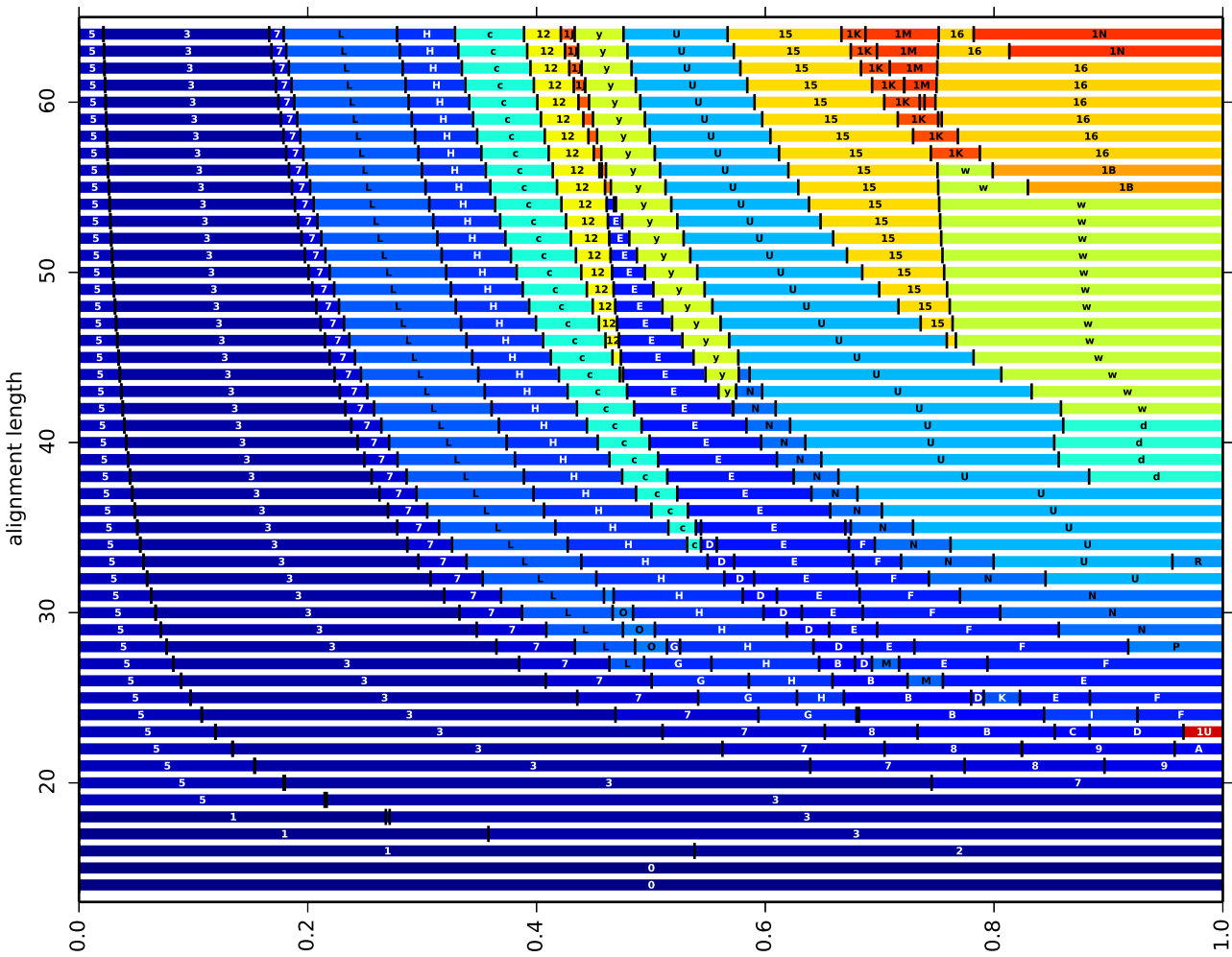
```

```

d = 111101101111,111110001010010111
e = 11110011010111,1111100001000100111
f = 111101101111,111110010001010111
g = 111101101111,11111010000100010111
h = 111101100111,1111101000100010111
i = 111101101111,11111001000100010111
j = 111101100111,11111010000100010111
k = 111001101111,11111010001000010111
m = 11110011010111,11111001000010010111
o = 11110011010111,1111101000100100010111
r = 11110011010111,11111001000100010111
s = 111101101111,11111000100100010111
t = 111011010111,11111010000100010111
u = 111101100111,1111001010000100010111
v = 11110011011011,1111101000001000010111
w = 111011011011,111110100100010111
y = 111101101111,111101010011010111
z = 111101101111,11111001000100010111
10 = 111011011011,11110101000100100010111
11 = 111100110011,11110010000010000010111
12 = 111011101111,1111010101110111
13 = 111011011011,1111010010001000010111
14 = 111100110011,111100100000000010111
15 = 111011011111,1111100110001010111
16 = 11110011011011,11110101000100010111
17 = 111101101111,11110010100100010111
19 = 111101110111,1111010011010010111
1A = 11101101110111,111101000100100010111
1B = 11101101110111,111101000100010010111
1C = 111011011011,1111010100100100111
1J = 111011110111,1111010001110111
1K = 111011101111,11110100100010111
1M = 1110110100110111,111110010001000111
1N = 111011010110111,111110000100010111
1P = 111100110110111,11111000100100010111

```


\int_0^x Hit Integration (n:2,w:13)



```

0 = 111111111111,110111111111
1 = 111111111111,111110111111
2 = 111101111111,110111110111
3 = 111101111111,111111101011
5 = 111111111111,111110111111
7 = 111011111111,111111010111
8 = 111010111111,111111100101
9 = 111010111111,111101110010
A = 111101011111,11110101110010
B = 111011110111,111111010011
C = 111011110111,111101001101
D = 111101101111,111101010100
E = 111101101111,111100101100
F = 111101101111,111101001010
G = 111011111011,111110010111
H = 110111110111,111101001101
I = 111101101111,111110100110
K = 111101101111,111101001010
L = 111011101111,111111011011

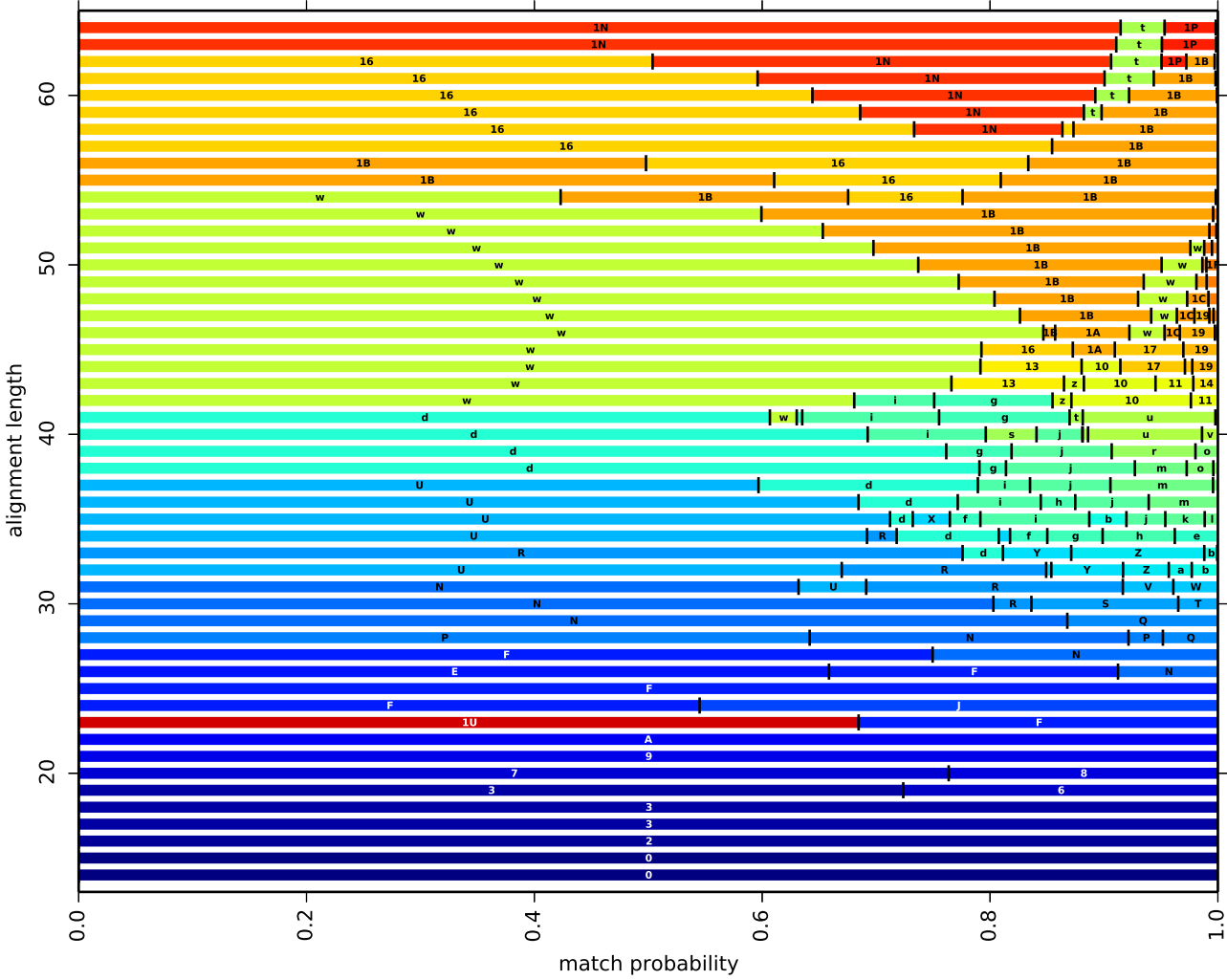
```

```

M = 111011110111,111110100110
N = 111011101101,111110100101
O = 110111011111,111110110101
P = 111101101111,111100101001
R = 111101011011,111100010100
U = 111101011011,111100101001
c = 110101111011,111110100110
d = 111101011011,111100010100
w = 111010101101,111101010010
y = 111101011011,111101010011
12 = 111011101011,111101001101
15 = 111010101101,111101001100
16 = 111100101010,111101000100
1B = 111010110101,111101000100
1J = 111011110101,111101000101
1K = 111011101011,111101001001
1M = 111010100110,111100100010
1N = 111010101001,111101000100
1U = 111101101111,111110010100

```

\int_x^1 Hit Integration (n:2,w:13)



```

0 = 111111111111,110111111111
2 = 111101111111,110111110111
3 = 111101111111,111111011011
6 = 111011111111,111111010111
7 = 111011111111,111111010111
8 = 111011011111,111111100111
9 = 111011011111,11111011100111
A = 111101101111,1111101011001011
E = 111101110111,1111100101100111
F = 111101110111,111110100101100111
j = 111101101111,1111101001010011
N = 111011101111,1111101001010111
P = 111101110111,1111100100100111
Q = 111101110111,1111100010010111
R = 111101101111,1111100010100111
S = 111101110111,11111000100100111
T = 111101110111,1111101001010111
U = 111101101111,1111101001001011
V = 11101101110111,1111100010010111
W = 111101110111,11111000100100111
X = 111101101111,11111001000100111
Y = 111101101111,11111010001000111
Z = 111101101111,11111000101000111
a = 111011011111,11111000101000111
b = 111101100111,11111000101000111
d = 111101101111,1111100010100111
e = 111100110111,111110000100100111
f = 111101101111,11111001001010111
g = 111101101111,1111101000010100111

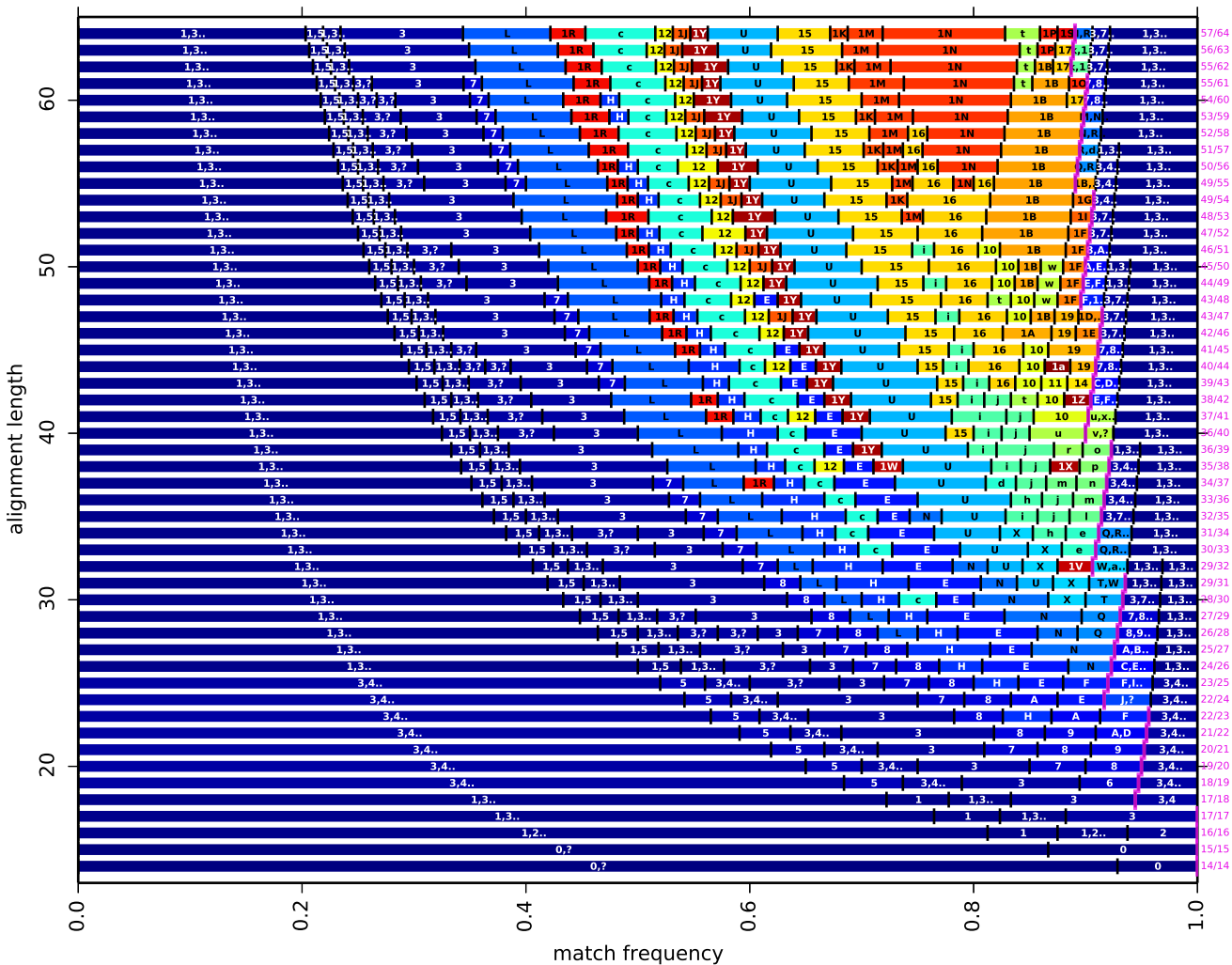
```

```

h = 111101100110111,1111010001000111
i = 11101110110111,111110010100010111
j = 111101100110111,11111010000100010111
k = 11100110110111,111110100010100010111
l = 1111011100111,11111010000100010111
m = 111100110111,11111010000100010111
o = 111100110111,11111010001000010111
r = 111100110111,111110001000100010111
s = 111101101111,11111000100100010111
t = 11101101100111,111011010000100010111
u = 111101100111,111100101000100010111
v = 111100110111,1111101000001000010111
w = 11101101110111,11110101100100010111
z = 111101101111,1111100100010100111
10 = 11101010110111,111101010000100100111
11 = 111100110011,11111001000010000010111
13 = 11101101110111,1111010001000010111
14 = 111100110011,11110010000000010111
16 = 111100110111,11110101000100010111
17 = 111101101111,1111001010010010111
19 = 111101101111,11101100110100111
1A = 11101101110111,111101000101000111
1B = 11101101110111,11110100010100111
1C = 11101101110111,1111010100100111
1F = 111101110111,11111010010010111
1N = 11101101100111,1111010000100010111
1P = 111100110111,11111000100100010111
1U = 111101110111,11111100101100111

```

Dirac (n:2,w:13)



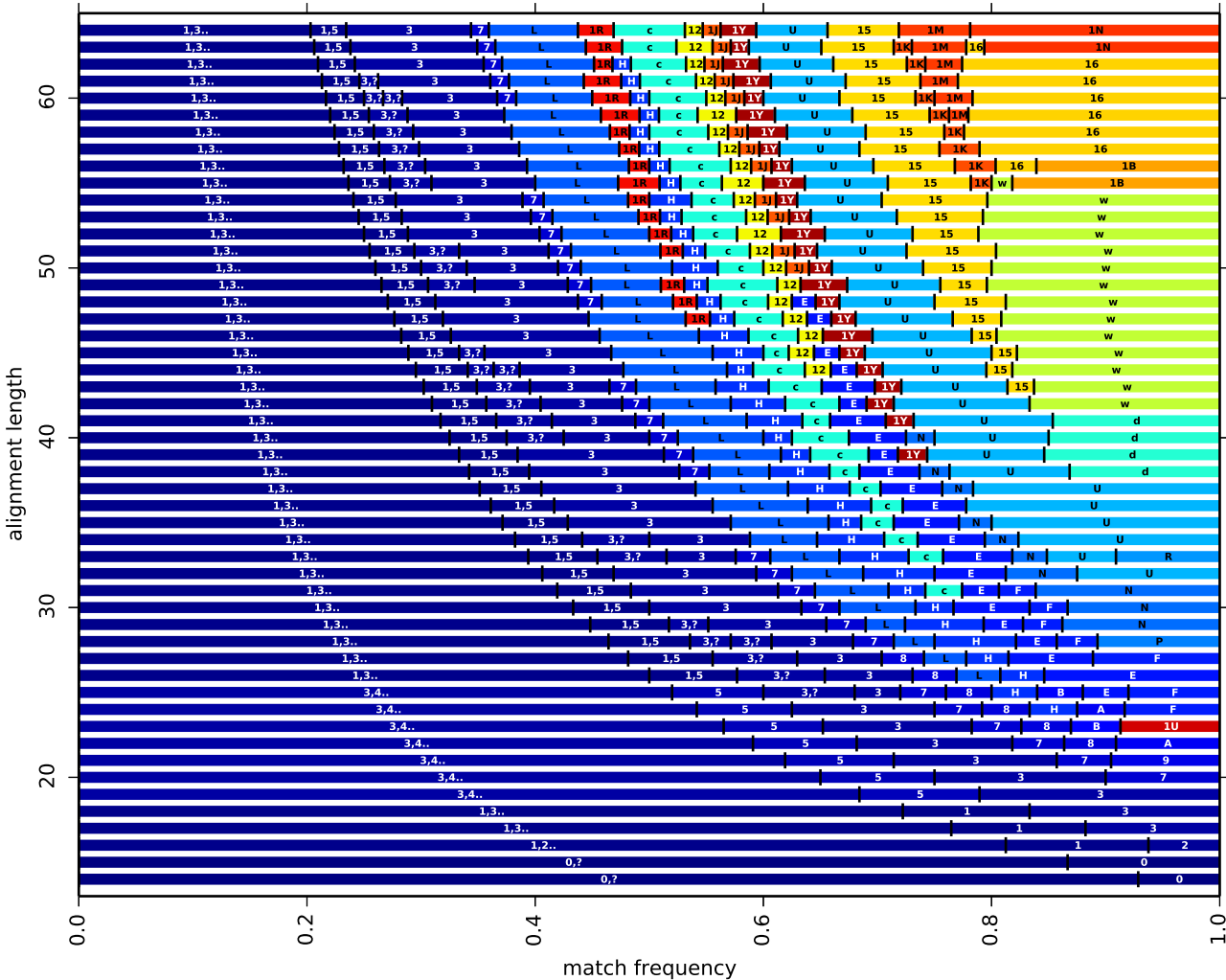
```

0 = 111111111111,110111111111
1 = 111111111111,111101111111
2 = 111101111111,110111110111
3 = 111011111111,111111011011
4 = 111111111111,111101110111
5 = 111111111111,111111011111
6 = 111011111111,111111010011
7 = 111011111111,111111010111
8 = 111011011111,111111110011
9 = 111011011111,111101110011
A = 111011011111,11110101100111
B = 111011110111,11111010011011
C = 111011110111,11110100011011
D = 111011101111,11110101100111
E = 111011100111,11110010100111
F = 111011011111,1111010010100111
G = 111011111011,11111000111111
H = 110111110111,11110100111011
I = 111011101111,11111010011011
J = 111011011111,1111101001001111
K = 111011011111,11110100101011
L = 111011101111,11111011101011
M = 111011101111,111101001101011
N = 111011011011,1111010010010111
O = 110111011111,1111011010111
P = 111011011111,1111010010100111
Q = 111011011111,1111000100010111
R = 111011011011,1111000101001111
S = 111011011111,1111000100100111
T = 111011011111,1111000100101111
U = 111011011011,1111001010010111
V = 111011011011,1111000100010111
W = 111011011111,1111000100100111
X = 111011011011,1111000100010111
Y = 111011011011,1111010010001111
Z = 111011011011,1111000101000111
a = 111011011011,1111000101000111
b = 11101100110111,1111000100010011
c = 110101110111,11110100110111
d = 111011011011,1111000101001011
e = 11100110101111,1111000100100111
f = 111011011011,111100100100010111
g = 111011011011,111101000010100111
h = 11101010010111,111101000100010111
i = 11101101010111,111100100010001011
j = 11101100110111,111101000010001011
k = 111001101010111,11110100010010001011
l = 11101110011111,111101000010000111
m = 111001101010111,111100100010001011
n = 111001101010111,111100100010001011
    
```

```

o = 111100110101111,111110100010010001000111
p = 111101001101111,111101010100000001001111
q = 1111001101010111,11110101000100100001001111
r = 1111001101010111,111100010001000100011111
s = 11110110110111,1111000100100010101111
t = 1110110101100111,11101101000010001010001111
u = 1111010110010111,111100101000010001001111
v = 1111001101010111,111011000001000001010111
w = 11101101110111,1111010100100010011111
x = 1110110101100111,111101001000010001000111
y = 11110110110111,1111010010011010011111
z = 11110110110111,111100100001000101001111
10 = 1110101011010011,11110101000010010000100111
11 = 11110011001101011,111100100001000001010111
12 = 11101110101111,1111010010111011
13 = 11101101101011,1111010010001000010111
14 = 11110011001101011,111100100000000101010111
15 = 111011010110111,1111010011000100101111
16 = 111100110101011,111101010000100001001111
17 = 11110110110111,1110010100010010101011
18 = 1110100110100111,11110010100001000000110011
19 = 11110101101111,111010010100010111
1A = 111010101110011,1110101000100100001001111
1B = 11101011010111,1111010010001001010111
1C = 1110110110111,111101001001001001111
1D = 111010110111,111010101001010111
1E = 111101110111,111100010000101111
1F = 111011101111,11101101001001010011
1G = 111011011011,1101011000010001010111
1H = 110101110111,111101001001001111
1I = 111011101111,111101000100010111
1J = 1110111101011,11110100010110111
1K = 111011101011,1111010010100010010111
1L = 11101001101011,11110100010001001011
1M = 1110101010011011,11110010000100010100111
1N = 111010101010011,11101100001000100100111
1O = 111011011011,11110110000001010011
1P = 111100110101011,111100010000100001101011
1Q = 11101110100111,1110110000001001000111
1R = 1111010111011,1110110110100111
1S = 111100110101011,11110010001000100101011
1T = 110110111111,11110111001011
1U = 111011011011,11111001010010111
1V = 111011010111,111100010010010111
1W = 111011011011,111101010010010111
1X = 111010110100111,11110100001001000100111
1Y = 111011011011,1111010010010111
1Z = 111010100101011,111101001010000001000111
1a = 1110100101010011,111100100000001000100111
1b = 1110110101011,111011001000100010010111
    
```

$$\sum_0^x \text{Heaviside}(n:2,w:13)$$

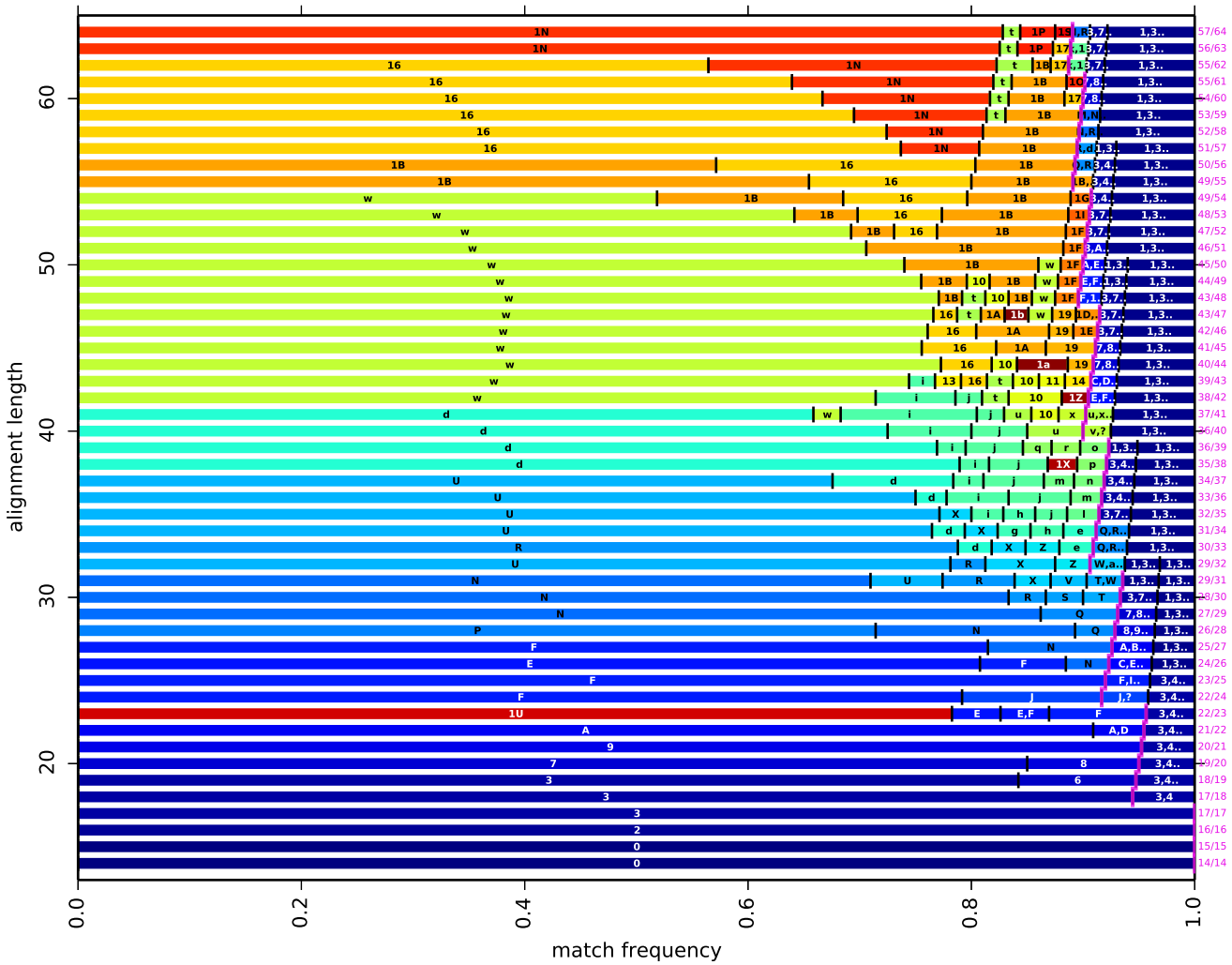


```

0 = 111111111111,110111111111
1 = 111111111111,111101111111
2 = 111101111111,110111111111
3 = 111101111111,111111010111
4 = 111111111111,111101110111
5 = 111111111111,111111011111
6 = 111011111111,111111010111
7 = 111011111111,111111010111
8 = 111011011111,111111001011
9 = 111011011111,11110111001011
A = 111101011111,1111010111001011
B = 111101110111,11111000110111
C = 111011110111,11110100110111
D = 111101101111,111101011010111
E = 111101101111,1111001011010111
F = 111101101111,11110100110111
G = 11101111110111,11111001011111
H = 110111110111,111101001110111
I = 111101110111,111111010010111
J = 111101110111,1111110010100111
K = 111101110111,11111001010111
L = 111011110111,111111011010111
M = 111011101111,111110100110111
N = 111011011011,1111101001010111
O = 110111011111,11110110101111
X = 111101110111,1111100101001111
Q = 111101110111,1111100101001111
Q = 111101110111,1111100101001111
R = 111101110111,1111000101001111
S = 111101110111,1111000101001111
T = 111101110111,1111000101001111
U = 111101110111,1111000101001111
V = 111011011011,111110001000101111
W = 111101110111,11110000100101111
X = 111101110111,11111001000101111
Y = 111101110111,11111001000101111
Z = 111011011011,11111000101001111
a = 111011011011,11111000101001111
b = 11110110011011,111100010100010111
c = 110101110111,111110100110111
d = 111101110111,111110001010010111
e = 11110011010111,11111100001001001111
f = 11110110110111,111110010010010111
g = 11110110110111,11111000010100010111
h = 11110110011011,111101000101001111
i = 11110110110111,111100101000101111
j = 11110110011011,11110100001000101111
k = 11100110101011,1111101000100100010111
l = 11110111001111,111110000100001111
m = 11110011010111,11111001000100010111
n = 11110011010111,11111001000100010111
o = 11110011010111,11111010001000010001111
p = 11110100110111,111101010100000001100111
q = 11110011010111,1111010100010010000100111
r = 11110110110111,111110001001001001111
s = 11110110110111,1111100010010001010111
t = 11101101100111,11101101000100010100111
u = 1111010100110111,11110010000100010001111
v = 11110011010111,111101000001000001010111
w = 11101101110111,111101011001000100111
x = 11101101100111,11110100100010001000111
y = 11110110110111,11110100110100111
z = 11110110110111,1111001000100010100111
10 = 1110101011010111,1111010100010010000100111
11 = 1111001100110111,111100100100001000001010111
12 = 1110111010111,11110100110110111
13 = 1110110110111,11110100011000010111
14 = 1111001100110111,1111001000000001010111
15 = 11101101110111,1111010011000100111
16 = 111100110110111,111101010001001000100111
17 = 11110110110111,111100100010001010111
18 = 1110011010100111,1111001000010000001100111
19 = 11110110111111,11110100110100111
1A = 111011011100111,111010100010010001001111
1B = 11101101101011,1111010010001100101011
1C = 1110110110111,111101001001001001111
1D = 111101110111,11110100110101010111
1E = 111101110111,11110100011000101111
1F = 111101110111,11110110100100100111
1G = 111101110111,111101100010001001111
1H = 110101110111,11110110010100111
1I = 111101110111,111110000100010111
1J = 11101111010111,11110100011011011
1K = 11101101101011,11110100101000100111
1L = 1110110011010111,1111010010010100010111
1M = 111010110100110111,111101000100010100111
1N = 111011010100111,11110100001000100100111
1O = 11110110110111,1111010100000010110011
1P = 111100110110111,111100010001000101011
1Q = 1110110110100111,11110100000100100111
1R = 11110110111111,11110111110100111
1S = 111100110110111,111110010001000100110111
1T = 110111011111,1111011110010111
1U = 111101101111,111110010100111
1V = 1111011010111,1111000100101010111
1W = 111101101111,111101010010010111
1X = 11101101100111,111110100001001000100111
1Y = 11110110110111,111101001010010111
1Z = 111101010010111,1111010000001000001111
1a = 11110011010100111,111100100000010001001111
1b = 111101101010111,111101001000100001001111

```

$$\sum_x \text{Heaviside}(n;2,w;13)$$



```

0 = 111111111111,110111111111
1 = 111111111111,111101111111
2 = 111101111111,11011111101111
3 = 111101111111,11111101101111
4 = 111111111111,11110111011111
5 = 111111111111,11111011111111
6 = 111011111111,11111011010111
7 = 111011111111,11111101010111
8 = 111010111111,11111101001011
9 = 111010111111,1111101110010111
A = 111010111111,111110101100010111
B = 111011110111,1111101001101111
C = 111011110111,11111010011101111
D = 111011011111,11111010101001111
E = 111011101111,111110010101001111
F = 111011011111,111110100101001111
G = 111011111011,1111110010111111
H = 110111110111,11111010011101111
I = 111011101111,11111101011010111
J = 111010111111,111110100101001111
K = 111011011111,11111010010101111
L = 111011101111,1111110111010111
M = 111011101111,11111010011010111
N = 111011010111,1111101001001010111
O = 111011101111,1111101110101111
P = 111011011111,111110010010001111
Q = 111011101111,111110001001001111
R = 111011011011,111110001010011111
S = 111010110111,111110001001001111
T = 111010110111,1111100010010101111
U = 111010110111,1111100101001001111
V = 111010101101,11111000100010101111
W = 111010110111,111110001001001111
X = 111010110111,111110010001000101111
Y = 111010110111,111110010001000101111
Z = 111010101011,111110001010001001111
a = 111010101011,111110001010001001111
b = 111001100101,111110001010001001111
c = 110101111011,111110100101011111
d = 111010111011,11111000101001011111
e = 111001101010,1111100010010001001111
f = 111010111011,1111100100100010101111
g = 111010110111,11111010000101000101111
h = 111010100101,1111100010001010011111
i = 111011101011,1111100100010001011111
j = 111010110010,1111101000010001000101111
k = 111001101010,11111010001001000010101111
l = 111010110011,111110100001000010011111
m = 111001101010,1111100100001000100101111
n = 111001101010,11111001000010001000101111

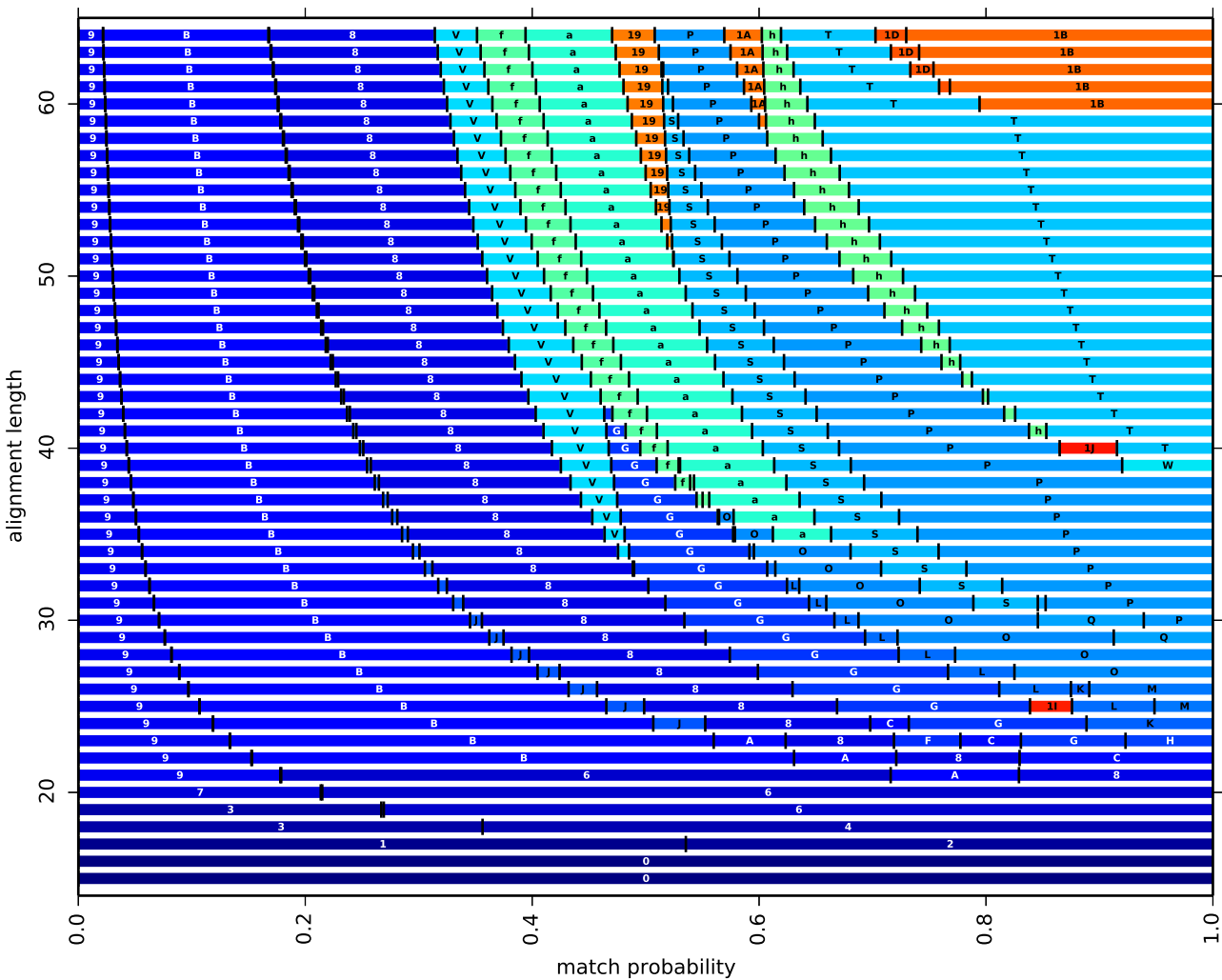
```

```

o = 11110011010101111,11111010001001000010001111
p = 1111010010101111,1111010101000000001001111
q = 1111001101010111,11110101000100100001001111
r = 1111001101010111,11111000100010010001001111
s = 111101011010111,11111000100100010101111
t = 11101101011001111,11101101000010001010001111
u = 1111010110010111,11110010100001000100101111
v = 1111001101010111,11110110000010000010101111
w = 111011010110111,111010110010001001111
x = 111011011001111,1111010010000100010010001111
y = 111101011010111,1110101001101001111
z = 11110101101011,111110010001000101001111
10 = 1110101010100111,111101010000100100001001111
11 = 1111001100101011,1111001001000010000010101111
12 = 11101110101111,111101001011011111
13 = 11101011010111,11110100100010000101111
14 = 1111001100101011,1111001000000001010101111
15 = 111011010110111,1111010011000100101111
16 = 1111001101101011,111010100010010001001111
17 = 11101011010111,1111001010001000101010111
18 = 11101001101001111,111100101000010000001100111
19 = 11110101101011,1110100110100101111
1A = 1110101011100111,11101010001001000010011111
1B = 111010111010111,11110100100010010101111
1C = 11101110110111,11101010010010010011111
1D = 11101011101111,111010011010010101111
1E = 1110111101111,111101001100010101111
1F = 1110111011111,11101110100100101001111
1G = 1110101110111,110101100010001010101111
1H = 11010111010111,1111010010100101001111
1I = 1111011101111,1111010001100010101111
1J = 11101111010111,1111010001101101111
1K = 11101110101011,1110101001010001001010111
1L = 111010011010111,111010001010001010111
1M = 1110101100110111,111110010001000101001111
1N = 1110101010100111,11101100001000100100101111
1O = 11101011010111,111010110000000101001111
1P = 1111001101010111,11110001000010001001010111
1Q = 1110101110100111,111011000000100101001111
1R = 1111010111111,11101111101001111
1S = 1111001101010111,1111001000100010001010111
1T = 1110110111111,11110111100101111
1U = 1110101101111,11111001001001111
1V = 1110111010111,111100010010010101111
1W = 1110101010111,111101010010010101111
1X = 1110101101001111,11111010000100100010001111
1Y = 11101011010111,11101010010100101111
1Z = 11101011001010111,111101001010000001000101111
1a = 11101001010100111,1111001100000001000100101111
1b = 111011101010111,11101100100010000101001111

```


\int_0^x Hit Integration (n:2,w:14)



```

0 = 11111111111111,11011111111111
1 = 11111111111111,11101111111111
2 = 11011111111111,11110101111111
3 = 11111111111111,11110111111111
4 = 11111011111111,111111110110111
6 = 11110111111111,111111110110111
7 = 11111111111111,11111011111111
8 = 11111011011111,1110111111010111
9 = 11111111111111,11111110111111
A = 11110111111111,1111111010110111
B = 11110111111111,111111110110111
C = 11011011111111,111111101011011
F = 11101101111111,111111110110111
G = 11011111101111,1111101001110111
H = 11011110111111,1111101110100111
J = 11101111111111,111111010110111
K = 11110111011111,11111100101100111
L = 11110111011111,11111100101101111

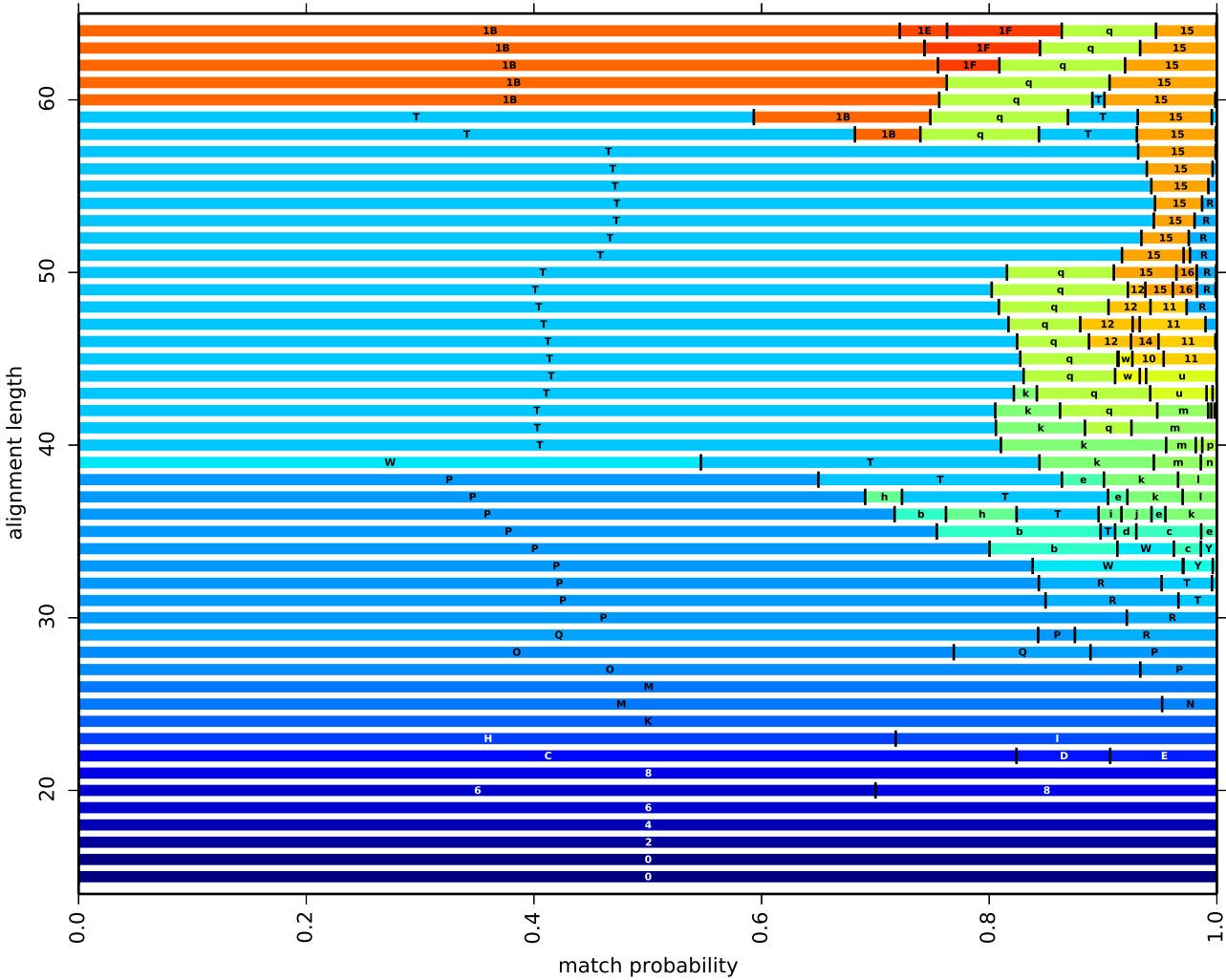
```

```

M = 11110111011111,1111110100101001111
O = 11111011101111,11111101001011001111
P = 1111011101101111,111110100100101001111
Q = 1111011101101111,111110100110001101111
S = 1111011101101111,111110010100110101111
T = 111101011101101111,111101010011000100101111
V = 111011111101111,1111110010110110111
W = 1111011011101111,1111110010100100101111
a = 1110111110110111,11110110001011101111
f = 1110101111011111,11111111001101010111
h = 111101011101101111,11111010011000100101111
19 = 1110111101101111,11111001001010101111
1A = 111011011011101111,11111001100010010101111
1B = 11110101100110101111,111101000100010100101111
1D = 1111011001011101111,11110101001100011000101111
J = 1110111101111111,111111001011101111
Jj = 11110111011101111,11111001001001010011111

```

\int_x^1 Hit Integration (n:2,w:14)



```

0 = 111111111111,110111111111
2 = 110111111111,111101101111
4 = 111101111111,111111101101
6 = 111011111111,111111101101
8 = 111101101111,111011111010
C = 111011011111,111111010110
D = 111011101111,111110111001
E = 111010111111,111110110010
H = 110111011111,111110111001
I = 111010111111,111101110011
K = 111011101111,111110011001
M = 111101101111,111101001100
N = 111011101111,111100101001
O = 111101101111,111110100110
P = 111101101111,111101001010
Q = 111011101111,111101001100
R = 111101110111,111010011001
T = 111010111011,111101001100
W = 111010111011,111110001001
Y = 111011101111,111110000100
b = 111011101111,111100010010
c = 111010111011,111101000100

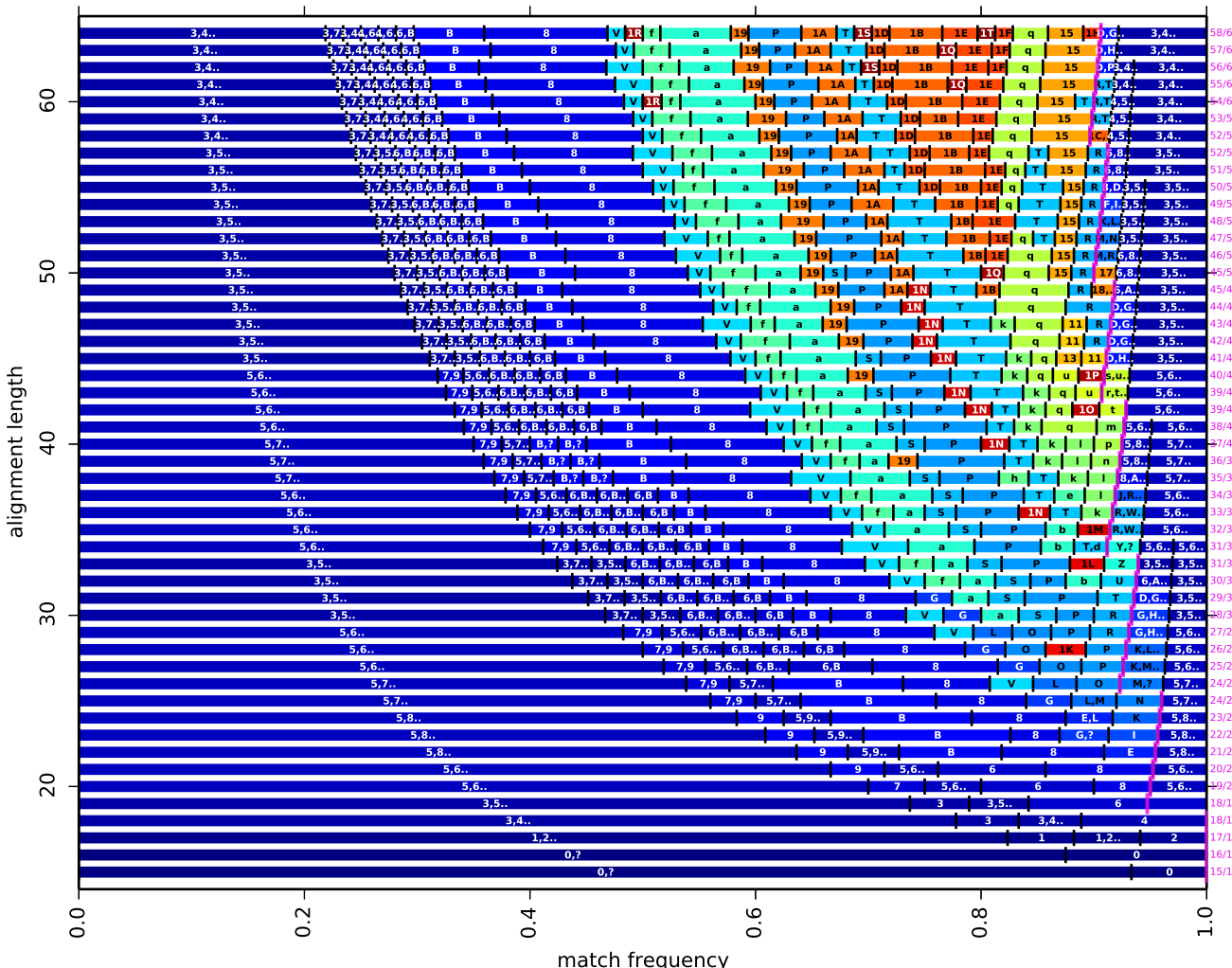
```

```

d = 111101110111,11111001000100101111
e = 111101110011,1111010001000010100111
h = 111101110111,111101001100010010111
i = 111011101111,11110010001000101111
j = 111101110111,11110100001100010111
k = 111100110111,1111010001001000010111
l = 111101101111,11110010000100100010111
m = 111100110111,1111010001001000010111
n = 111101011111,1111010100001000010111
p = 111100110111,111100100001001010111
q = 111100110111,11110010001001000010111
u = 111101001111,11110010001000010111
w = 111101011111,1111010100001000010111
10 = 111101011111,1111010001000001001111
11 = 111011100111,11110100010000000110111
12 = 111101110111,11110100000100010111
14 = 111011100111,11110010001000000110111
15 = 111101110111,111101010011000100111
16 = 111101110111,11110011010010100111
18 = 111101110111,1111010001000100111
1E = 111100110111,111101010000100100111
1F = 111100110111,111101010010001100111

```


Dirac (n:2,w:14)



```

0 = 11111111111111,11011111111111
1 = 11111111111111,11011111111111
2 = 11011111111111,11111011011111
3 = 11111111111111,11111011111111
4 = 11110111111111,11111111010111
5 = 11111111111111,11111011011111
6 = 11110111111111,11111111101011
7 = 11111111111111,11111011111111
8 = 11110110111111,11101111101011
9 = 11111111111111,11111011111111
A = 11110111111111,11111110101011
B = 11110111111111,11111110101011
C = 11110110111111,11111110101011
D = 11101110111111,1111110110100111
E = 11101101111111,1111101100010111
F = 11110110111111,1111111110101011
G = 11011111101111,1111110100111011
H = 11101110111111,1111110101001111
I = 11101101111111,11111010110001111
J = 11101111111111,1111110101101111
K = 11110111011111,11111100011001111
L = 11110110111111,11111000101010111
M = 11110111011111,11111000011001111
N = 11110111011111,1111100010100010111
O = 11110111011111,111110100010100111
P = 11110110101111,11111000100010100111
Q = 11110110101111,11111000100001010111
R = 11110111011111,11110100010000101111
S = 11110111011111,1111100101001010111
T = 11110111010111,111101000100001010111
U = 11110111011111,1111110000010000111011
V = 11101111110111,11111100010110111
W = 11110110101111,11111000010000100111
X = 11110111010111,11111000010001010111
Y = 11110110101111,1111100000101001010111
Z = 11110111011111,1111110000010000111011
a = 111011111010111,111101000101101111
b = 11110110101111,11111000010000101111
c = 11110111010111,1111100000100000101111
d = 11110111010111,111100010000100101111
e = 11110110011001111,11111010000100001001111
f = 111010111011111,11111110011010111
g = 110111110101111,1111101010001101011
h = 111101110101111,111101000100001001111
i = 1110111010101111,11111001010001000101111
j = 1111010111010111,11111010000110001001111

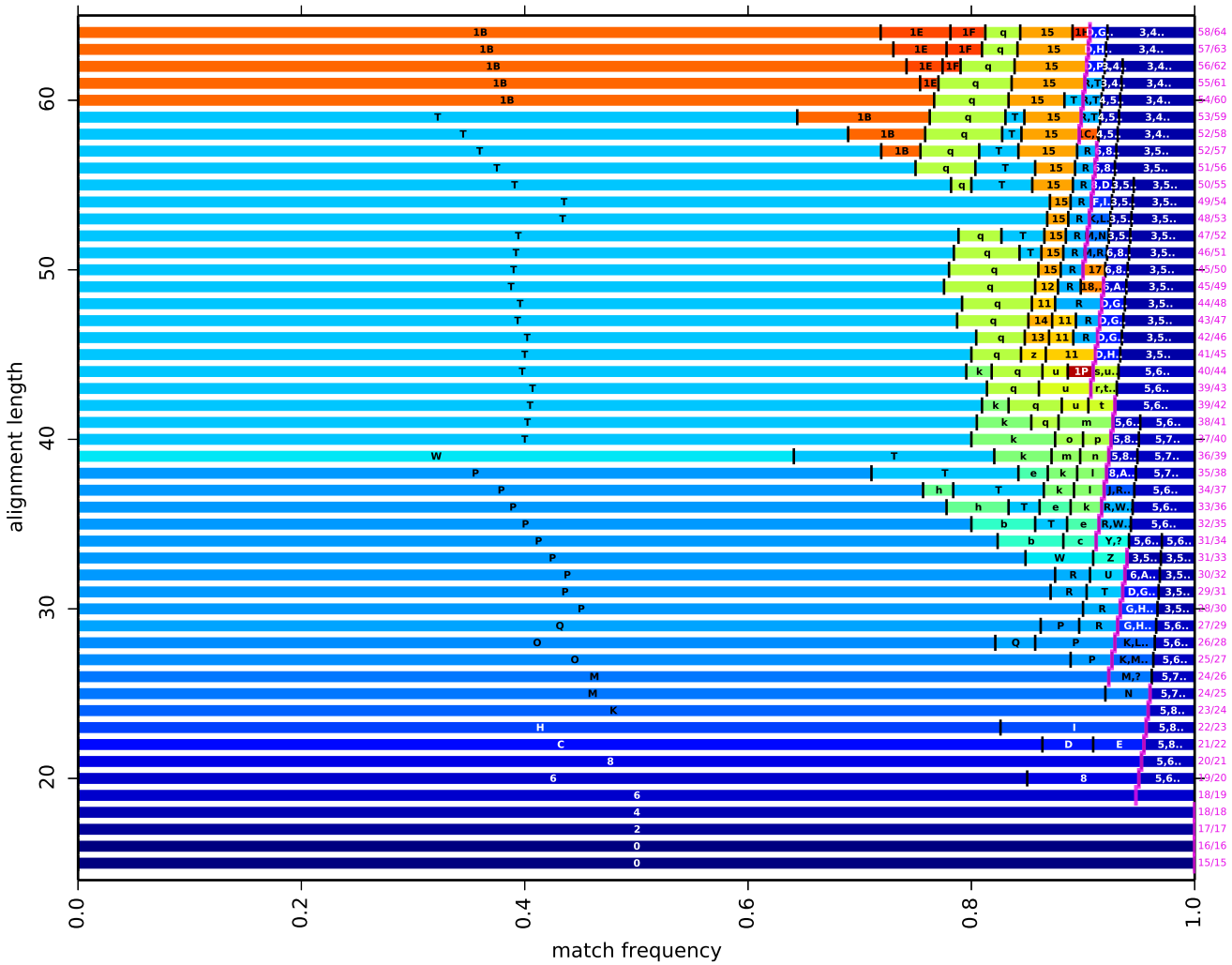
```

```

k = 111100110110101111,1111011000100100001010111
l = 11110101101001111,1111001000010010001010111
m = 111100110110101111,11110110001001000001010111
n = 111101011010001111,111101010000100001001111
o = 11110101100101111,11110101000010000001101111
p = 1111001101011111,11110011000100000100101011
q = 11110011010101111,11110011000100100001010111
r = 11110101100101111,1111010000100001000011111
s = 11110101101001111,1111010100001000010010111
t = 1111010110011001111,11110100010000100001111
u = 111101000101001111,111100100010001000001010111
v = 11110011001101010111,1111011000000010010010100111
w = 111101010100101111,1111010100001000001001111
x = 111100110110101111,1111000100010000001010111
y = 11110011010101111,11110100001000000010100111
z = 111100110100101111,1111010100001001000001100111
10 = 111101010110010111,111101000010000010001001111
11 = 1110111001010010111,111101000010000000011010111
12 = 1111010111010111,1111010000010010001010111
13 = 111101010010100111,111101100000010001000100111
14 = 1110111001010010111,11110010010001000000011010111
15 = 1111010111010111,1111010100010000100100111
16 = 1111011101101111,11110010100101001111
17 = 111101110110111,111100100101001001111
18 = 11110111011111,1111010001010001010111
19 = 111011110101111,11110010010101010111
1A = 1110110101101111,1111001000100010010111
1B = 1111010110011010111,1111010000100001010010111
1C = 1111010111010111,111101011001000100100111
1D = 1111010001010111,1111010100010000100010111
1E = 111100110101010111,1111010100000100001000111
1F = 111100110101010111,1111010100010000100100111
1G = 1110111010101111,111101011000000100100111
1H = 1111010110101111,111110001001100010010111
1I = 11101110111111,1111100010110111
1J = 1111011101101111,1111001000010001001111
1K = 111101110101111,11110100011010100111
1L = 11110111010111,11111010001010000110111
1M = 1110111010101111,11110100010000000110111
1N = 11110101010110111,1111001010000110010111
1O = 1111010101001010111,1111010100010000001010111
1P = 111101100110101111,11110001001000000001010111
1Q = 1111010101001010111,1111010000010000100010111
1R = 1110111010111111,11110111110100111
1S = 11101101010110111,11110101000100110010111
1T = 1111010101001100111,1111010000101000100100111

```


$$\sum_x \text{Heaviside}(n;2,w;14)$$



```

0 = 111111111111,110111111111
1 = 111111111111,111011111111
2 = 110111111111,111101101111
3 = 111111111111,111101111111
4 = 111101111111,1111111101011
5 = 111111111111,111101101111
6 = 111101111111,1111111101011
7 = 111111111111,111110111111
8 = 111101101111,11101111101011
9 = 111111111111,111110111111
A = 111101111111,11111110110111
B = 111101111111,11111110110111
C = 111101111111,1111111011011
D = 111011101111,11111110100111
E = 111101111111,1111101100010111
F = 111101111111,11111111010111
G = 11011111101111,1111101001110111
H = 111101101111,1111101101001111
I = 111011011111,11111010110010111
J = 111011111111,111111010110111
K = 111101101111,111111000101001111
L = 111101101111,1111100101010111
M = 111101101111,1111100001000111011
N = 111101101111,111110010100010111
O = 111101101111,11111010010100111
P = 111101101111,111110001001001111
Q = 111101101111,111110010100010111
R = 111101101111,111101001100010111
S = 111101101111,111110010101010111
T = 111101101111,11110100110001001111
U = 111101101111,11111000010000111011
V = 1110111110111,1111110010110111
W = 111101101111,1111100010010010111
X = 111101101111,1111100010010010111
Y = 111101101111,1111100001010010111
Z = 111101101111,11111000010000111011
a = 111011110111,11110100010110111
b = 111101101111,111100010010010111
c = 111101101111,111110000100100010111
d = 111101101111,1111000001001010111
e = 11110110010111,1111100010001001001111
f = 111011110111,11111110011010111
g = 110111110111,11111010100110111
h = 111101101111,11110100110001001111
i = 111011011011,111110010001000101111
j = 111101101111,1111101000110001001111

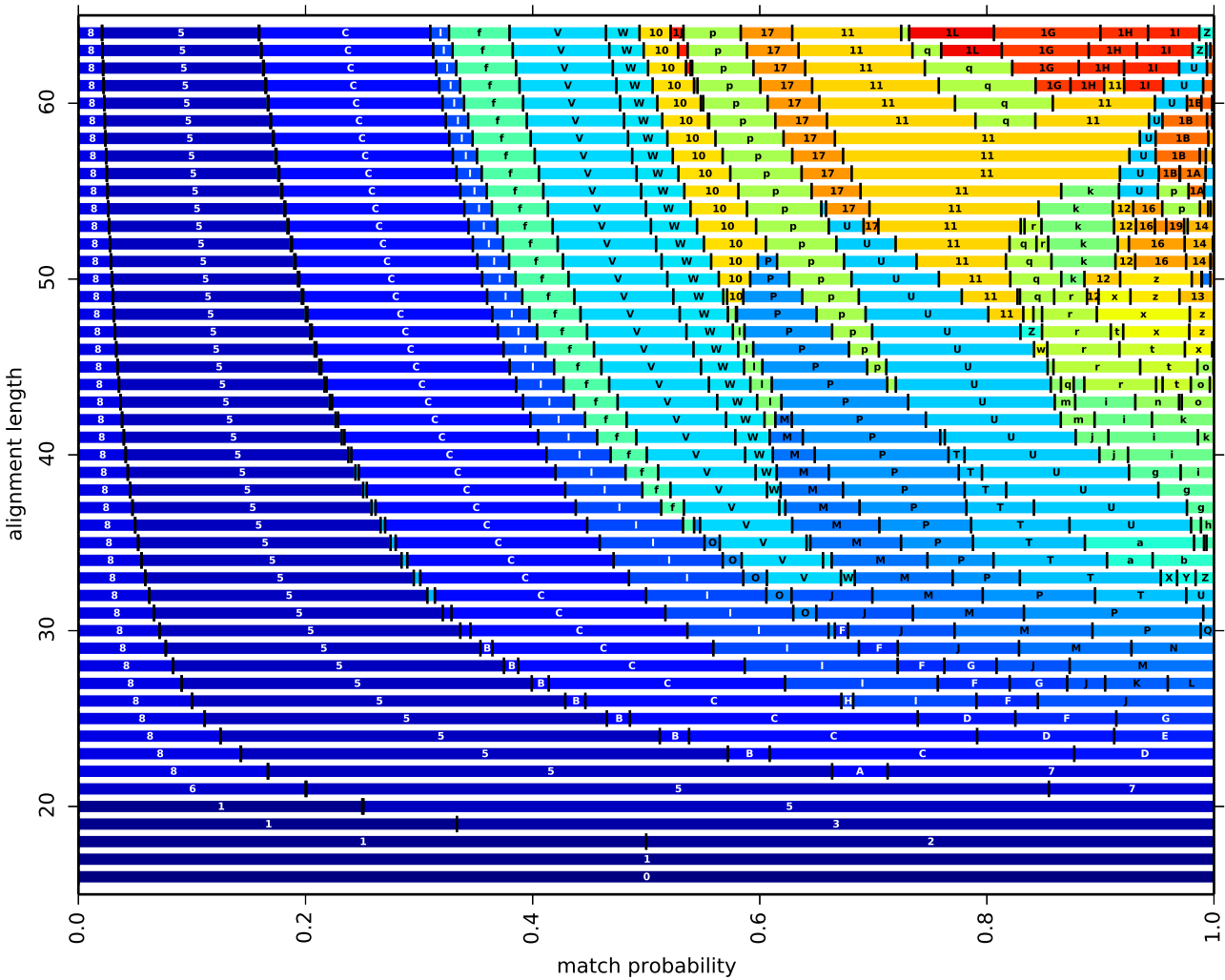
```

```

k = 111100110110101111,1111011000100100001010111
l = 111101011011001111,1111001000010010001010111
m = 111100110110101111,11110110001001000001010111
n = 111101011011001111,111101010000100001001111
o = 1111010110010111,11110101000010000001101111
p = 1111001101011111,11110011000100000100101011
q = 111100110110101111,11110011000100100001010111
r = 111101011001101111,111101000010000100011111
s = 11110101101001111,1111010100001000010011011
t = 1111010110011001111,1111010010100010001001111
u = 1111010001101001111,111100100010001000001010111
v = 11110011001101010111,11110110000001001000101001111
w = 111101010100110111,11110100001000001001111
x = 111100110110101111,111100010001000001010111
y = 111100110110101111,11110110010000100000010100111
z = 111100110100110111,1111010100001001000001100111
10 = 1111010101100110111,11110100100010000010001100111
11 = 111011100110010111,111101000001000000011010111
12 = 1111010111010111,11110101000001001000110111
13 = 111101010011010111,11110101100000010001000100111
14 = 111011100110010111,111100100010000000011010111
15 = 1111010111010111,11110101000100001001111
16 = 111101110110111,1111001100010001001111
17 = 111101110110111,1111001001010001001111
18 = 1111011101111,1111011001010001010111
19 = 111011110110111,111100100101010111
1A = 111011010110111,11110010001001010111
1B = 1111010110011010111,11110100010001010011111
1C = 1111010111010111,111101011001000100100111
1D = 11110110010110111,1111010100010000100010111
1E = 111100110101010111,11110101000001000010001111
1F = 111100110101010111,11110101000100000100100111
1G = 111011101010111,1111010110000001001100111
1H = 11110101010111,11110001001100010010111
1I = 111011101111,1111100101101111
1J = 1111011101111,1111001001001001001111
1K = 111101110111,1111100011010100111
1L = 111101110111,11111010001010000110111
1M = 11101110110111,11111001001000000110111
1N = 111101101111,111110010000110010111
1O = 111101011001010111,11110101000100000001010111
1P = 11110110011010111,111100010011000000001010111
1Q = 111101010100110111,1111010000010000100010111
1R = 1101110101111,11110111110010111
1S = 1110110101010111,11110101000100110010111
1T = 111101011001100111,1111010000101000100100111

```

Bernoulli (n:2,w:15)



```

0 = 1111111111111111,1011111111111111
1 = 1111111111111111,1111011111111111
2 = 1111101111111111,1101111111110111
3 = 1111101111111111,1110111111110111
5 = 1111011111111111,1111111011011111
6 = 1111111111111111,1111101111111111
7 = 1110110111111111,1111111101101011
8 = 1111101111111111,1111110111111111
A = 1111011111111111,1111111101010111
B = 1111011111111111,1111111101011111
C = 1110110111111111,1111111101011011
D = 1111011101111111,111111101111001011
E = 1111011101111111,1111101001110010111
F = 1111011101111111,11111100101010111
G = 1111011101111111,1111101001110010111
H = 1110111111011111,111111010011101111
I = 1110111111011111,111111010011101111
J = 1111011101111111,111110100111001111
K = 11110111011101111,11111001011001010111
L = 1111011101111111,1111110100101001111
M = 11110111011101111,11111010011001010111
N = 11110111011101111,1111101001100101001111
O = 1110111111011111,111110101001110111
P = 11110111011101111,11111010001010010111
Q = 11110111011101111,1111101001000101001111
T = 11110111011101111,111110100101000101111
U = 11110111011101111,111110100100010101111
V = 1110111111011111,111101100101110111
W = 11110111011101111,111110110100011010111
X = 11110111011101111,1111101001010001110111
Y = 11110111011101111,11111001001010001010111
Z = 11110111011101111,11111001001000101010111
a = 11110111011101111,111110001010010010111

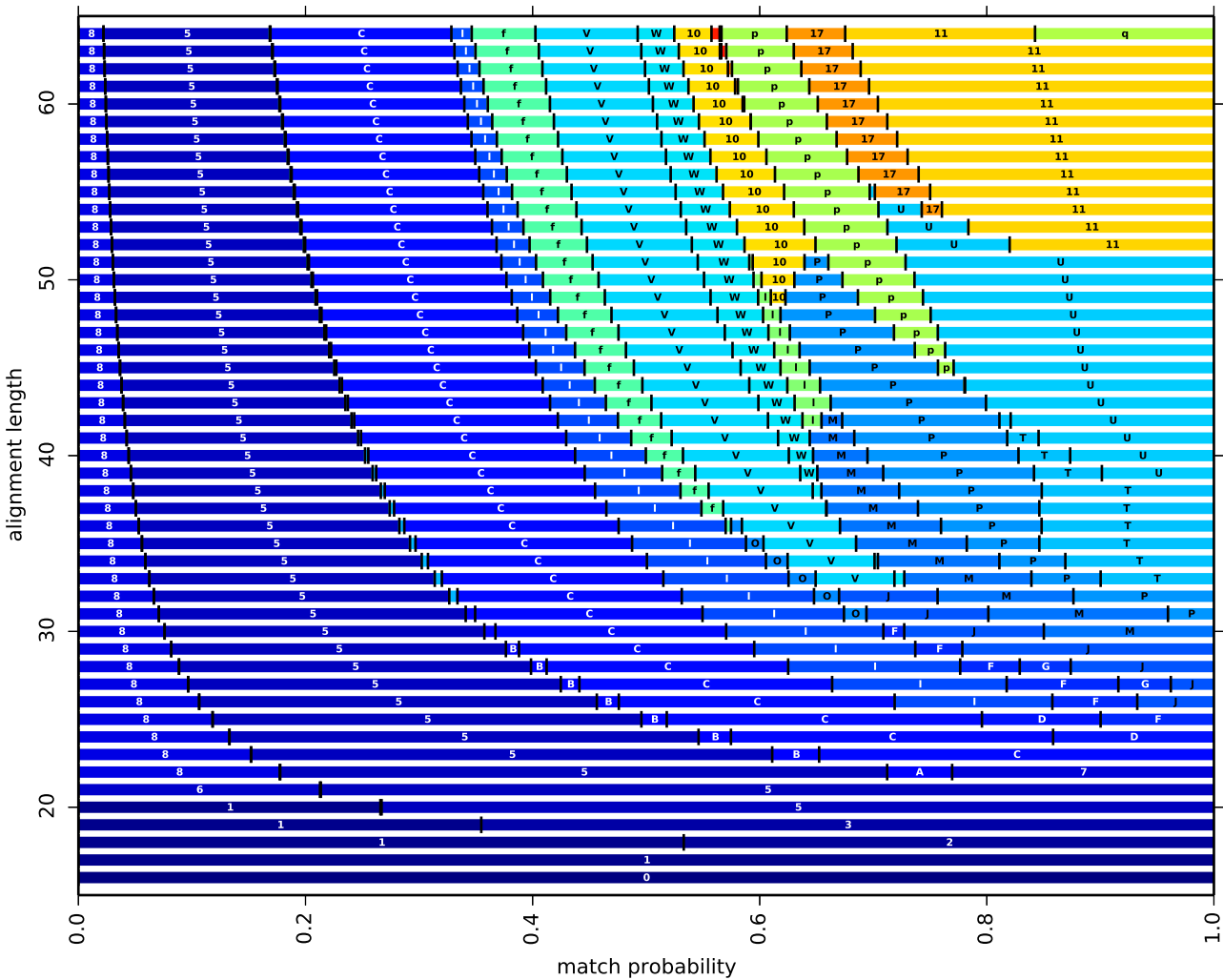
```

```

b = 111101110110101111,111110100011001010001111
f = 1110110111101111,111111110100110111
g = 11110110011010101111,11111010010001100001010111
h = 11110101110101111,1111100001000110010101111
i = 11110110011010101111,111110100100001100000110111
j = 1111011001110101111,11111010010000101000101111
k = 1111011001110101111,11111011001000010100010010111
l = 1111011101101111,11111010110010100101111
m = 111101100110101111,11110110010000101000101111
n = 1111100110110101111,111110011000100100001010111
o = 11110110111001111,11110110100001000100010001111
p = 111101011101101111,11111010011001010010111
q = 1111010110011010111,111110100011000100010010111
r = 111101011010101111,11111010000100100001100111
t = 111101011011001111,1111010100001001000011001111
w = 111101011100110111,11111010000101000100110111
x = 11110100110011010111,111101100100001000010010111
z = 1111010110011001111,1111010100000100000100110111
10 = 11110111011101111,1111100110100101001111
11 = 11101101110101111,1111010011000101001111
12 = 1111011001110101111,1111011001000010100001010111
13 = 111101001100110101111,111100110010000100001010111
14 = 1111011101101111,1111101000101001010111
16 = 111101110110101111,1111001100010010010100111
17 = 111011011011101111,1111101000110010010111
19 = 111101101011101111,111101001000010001001100111
1A = 11110111011101111,11111001100100100101111
1B = 1110110111011010111,11110100010001001010111
1G = 1110110011011010111,1110110010100000110001010111
1H = 1111010011011010111,11101100010011000010100111
1I = 111101010111010111,1111010000110001001010111
1J = 11110111011010111,1111010001011001010111
1L = 1110110110011010111,1111101000011000010100111

```

\int_0^x Hit Integration (n:2,w:15)



```

0 = 11111111111111,1011111111111111
1 = 1111111111111111,11110111111111
2 = 1111101111111111,1101111111101111
3 = 1111101111111111,1101111111101111
5 = 1111011111111111,1111110111011111
6 = 11111111111111,11111011111111
7 = 1110110111111111,1111111011010111
8 = 1111111111111111,1111111011111111
A = 1111011111111111,1111111101010111
B = 1111011111111111,1111111011010111
C = 1110110111111111,1111111101010111
D = 1111011011111111,111111101110010111
F = 1111011101111111,11111100101101111
G = 1111011011111111,11111101001100101111
I = 1110111111011111,1111111010011101111

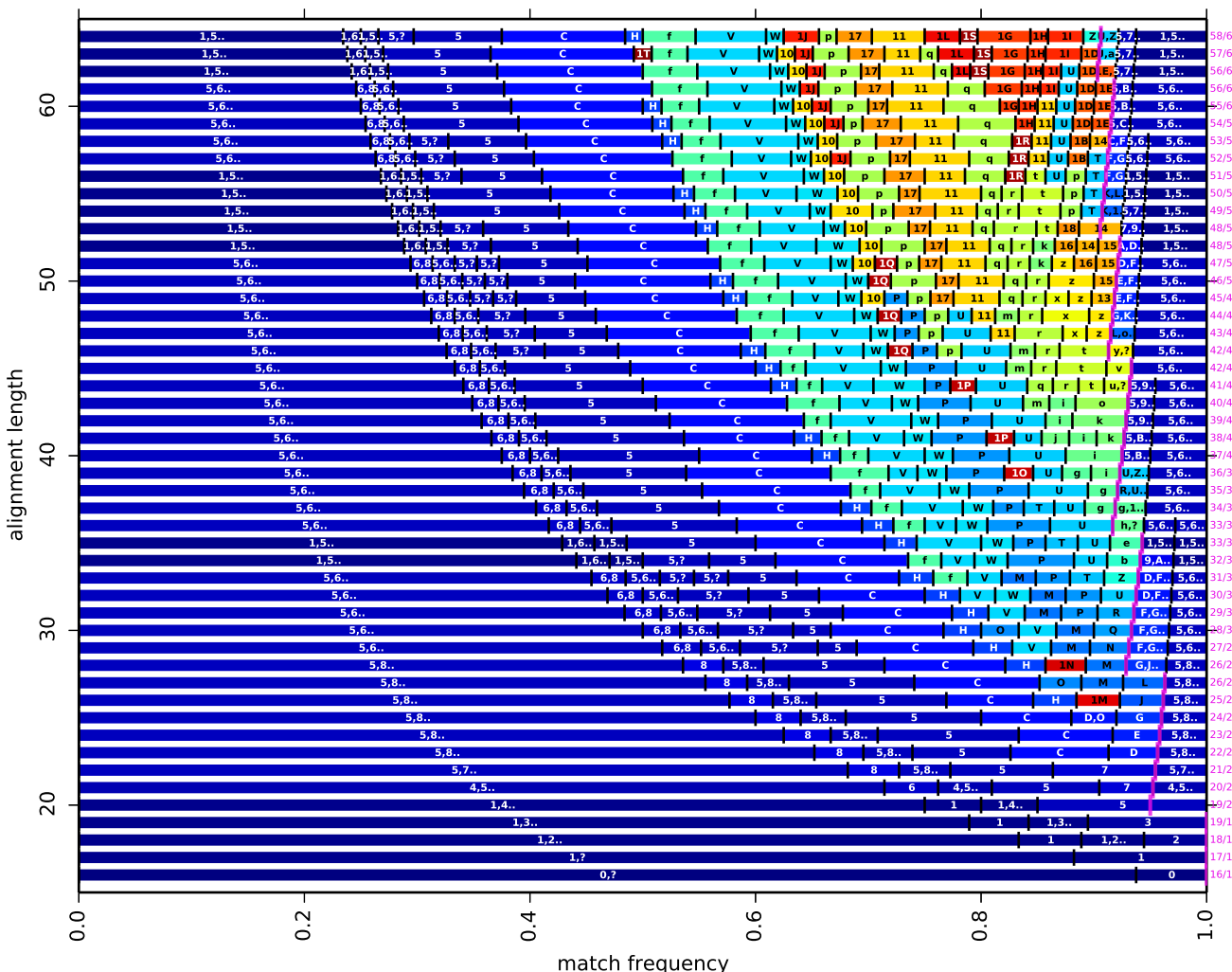
```

```

J = 1111101101111111,11111101001011001111
M = 1111011011011111,1111101001100101101111
O = 1110111111011111,11111011010011101111
P = 1111011101101111,1111101100010100101111
T = 1111011011101111,111110100101000101111
U = 111101101110101111,11111010011000110010101111
V = 1110111110110111,11110110010101101111
W = 1111011011101111,1111101101000110101111
f = 1110110111101111,1111111101001110111
l = 1111011101101111,1111101011001010011111
p = 111101011011101111,111110100110010100101111
q = 11110101100101110111,1111101000110001000100101111
10 = 1111011101101111,1111100110100110011111
11 = 111101101110101111,11110101001100010010011111
17 = 11110110110101110111,1111101000110010010101111

```


Dirac (n:2,w:15)

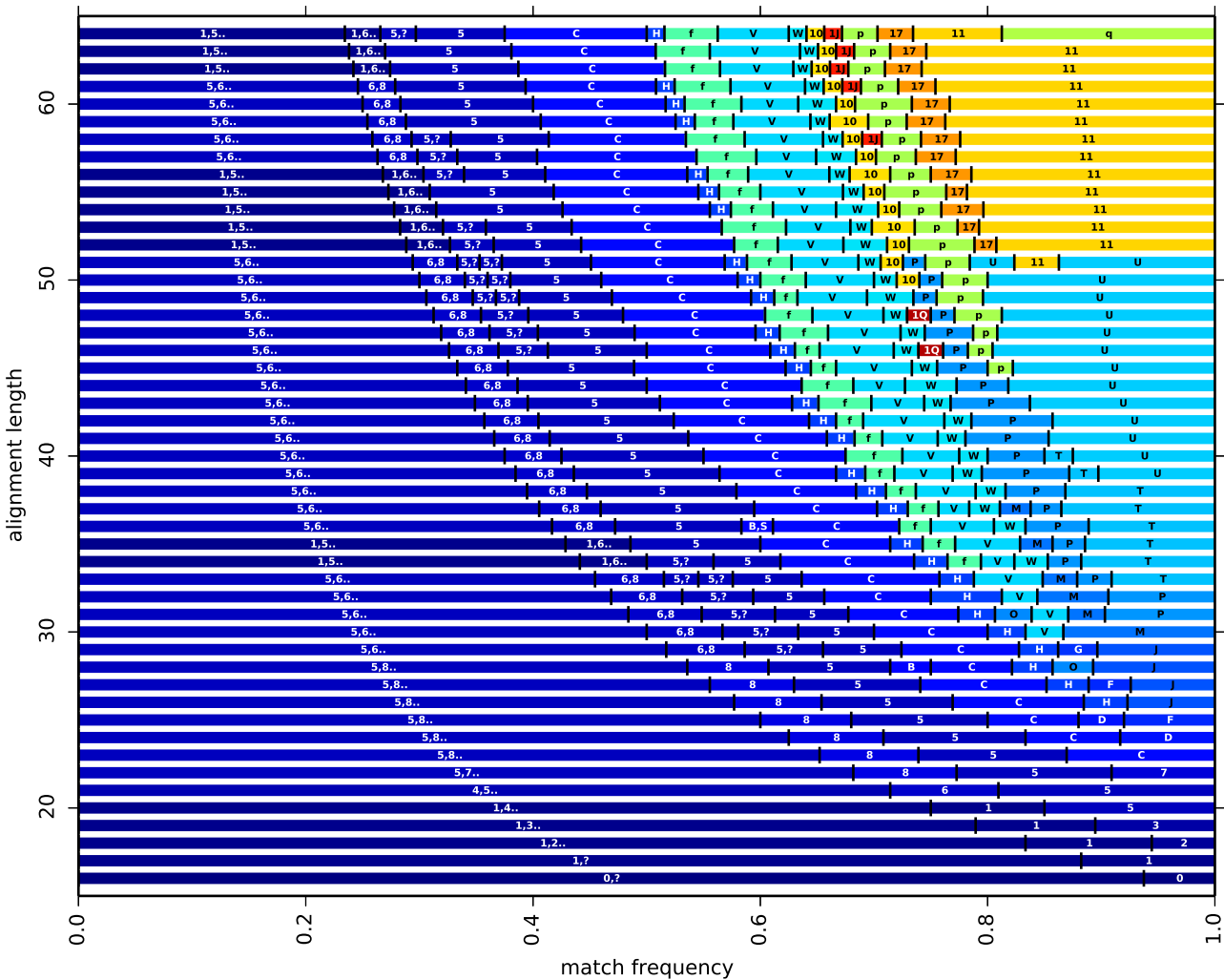


```

0 = 1111111111111111,1011111111111111
1 = 1111111111111111,1111101111111111
2 = 1111101111111111,1101111111110111
3 = 1111101111111111,1101111111110111
4 = 1111011111111111,1111111111110111
5 = 1111011111111111,1111111110101111
6 = 1111011111111111,1111101111111111
7 = 1110101111111111,1111111110101011
8 = 1111111111111111,1111111011111111
9 = 1111111111111111,1111111011101111
A = 1111011111111111,1111111110101011
B = 1111011111111111,1111111011010111
C = 1110101111111111,1111111110101011
D = 1110101111111111,111111101110010111
E = 1111011011111111,11111010111100101111
F = 1110101111111111,111111001011010111
G = 1110101111111111,11111010011100101111
H = 1110101111111111,11111010011101101111
I = 111011111111011111,111110100110101111
J = 1111011011111111,11111010011001011111
K = 111011101110111111,11111001011001011111
L = 111101110111111111,11111110100101001111
M = 111101110111011111,1111101001100101011111
N = 111101110111011111,111110010010010100111111
O = 111011111110111111,11111010100111011111
P = 111101101110111111,1111101000101001011111
Q = 111101101110111111,111110100100010100111111
R = 111101110110111111,111110100010010100111111
S = 111110111110111111,11110111111011011111
T = 111101101110111111,1111101001010001011111
U = 111101101110111111,11111010010001100101011111
V = 111011111011011111,1111010001010111011111
W = 111101101110111111,1111101010001010101111
X = 111101101110111111,1111101001010001110111
Y = 111101110110111111,111110010010100010101111
Z = 11110110111010111111,11111001000100010100101111
a = 111101101110111111,111111000101001001011111
b = 11110110111010111111,1111101000101001000111111
c = 111011110110111111,111110001010001010111111
d = 111011101110111111,111111000110010101011111
e = 111110111011011111,111110100001100101000111111
f = 111010111110111111,1111111010011010110111
g = 11110110011010101111,11111010010001100001010111
h = 111101011101011111,11111000010001100101011111
i = 11110100011010101111,1111101001000010000010101111
j = 11110110011010101111,11111010010000101000101111
k = 11110110011101011111,1111011001000010100010010111
l = 111101110110111111,1111101010010100111111
m = 111101100110101111,11110100100001010001101111
n = 111110011010101111,11111001000101000010101111
o = 11110110101110011111,111101101000010001000100011111
p = 111101011101101111,111101001100101001011111
q = 11110101100101101111,111101000110001000100101111
r = 11110011011010101111,1111010100001001000010011111
s = 11110011010101011111,1111010100001001000010011111
t = 11110101011011001111,11110101000010010000110011111
u = 11101011010110011111,111111000010000101000101010111
v = 111100110101011111,1111001100011000000010101111
w = 1111010111100101111,111101000010100010010101111
x = 11110100110011010101111,1111010010000100010010101111
y = 11110101011011001111,1111101000100001001000011010111
z = 11110101010010011111,11110101000010000010010101111
0 = 111101101110111111,1111001010010100111111
1 = 111011011101010111,11110101001100010010011111
2 = 111101100110101111,11110101000010000101011111
3 = 11110110111010101111,11110101001100010010011111
4 = 11110110011010101111,11110101000100010010011111
5 = 11110110011010101111,11110101000010000100101111
6 = 11110110011010101111,11110101000010000100101111
7 = 11110110011010101111,11110101000010000100101111
8 = 11110110011010101111,11110101000010000100101111
9 = 11110110011010101111,11110101000010000100101111
A = 11110110011010101111,11110101000010000100101111
B = 11110110011010101111,11110101000010000100101111
C = 11110110011010101111,11110101000010000100101111
D = 11110110011010101111,11110101000010000100101111
E = 11110110011010101111,11110101000010000100101111
F = 11110110011010101111,11110101000010000100101111
G = 11110110011010101111,11110101000010000100101111
H = 11110110011010101111,11110101000010000100101111
I = 11110110011010101111,11110101000010000100101111
J = 11110110011010101111,11110101000010000100101111
K = 11110110011010101111,11110101000010000100101111
L = 11110110011010101111,11110101000010000100101111
M = 11110110011010101111,11110101000010000100101111
N = 11110110011010101111,11110101000010000100101111
O = 11110110011010101111,11110101000010000100101111
P = 11110110011010101111,11110101000010000100101111
Q = 11110110011010101111,11110101000010000100101111
R = 11110110011010101111,11110101000010000100101111
S = 11110110011010101111,11110101000010000100101111
T = 11110110011010101111,11110101000010000100101111
U = 11110110011010101111,11110101000010000100101111
V = 11110110011010101111,11110101000010000100101111
W = 11110110011010101111,11110101000010000100101111
X = 11110110011010101111,11110101000010000100101111
Y = 11110110011010101111,11110101000010000100101111
Z = 11110110011010101111,11110101000010000100101111
a = 11110110011010101111,11110101000010000100101111
b = 11110110011010101111,11110101000010000100101111
c = 11110110011010101111,11110101000010000100101111
d = 11110110011010101111,11110101000010000100101111
e = 11110110011010101111,11110101000010000100101111
f = 11110110011010101111,11110101000010000100101111
g = 11110110011010101111,11110101000010000100101111
h = 11110110011010101111,11110101000010000100101111
i = 11110110011010101111,11110101000010000100101111
j = 11110110011010101111,11110101000010000100101111
k = 11110110011010101111,11110101000010000100101111

```


$$\sum_0^x \text{Heaviside}(n;2,w:15)$$

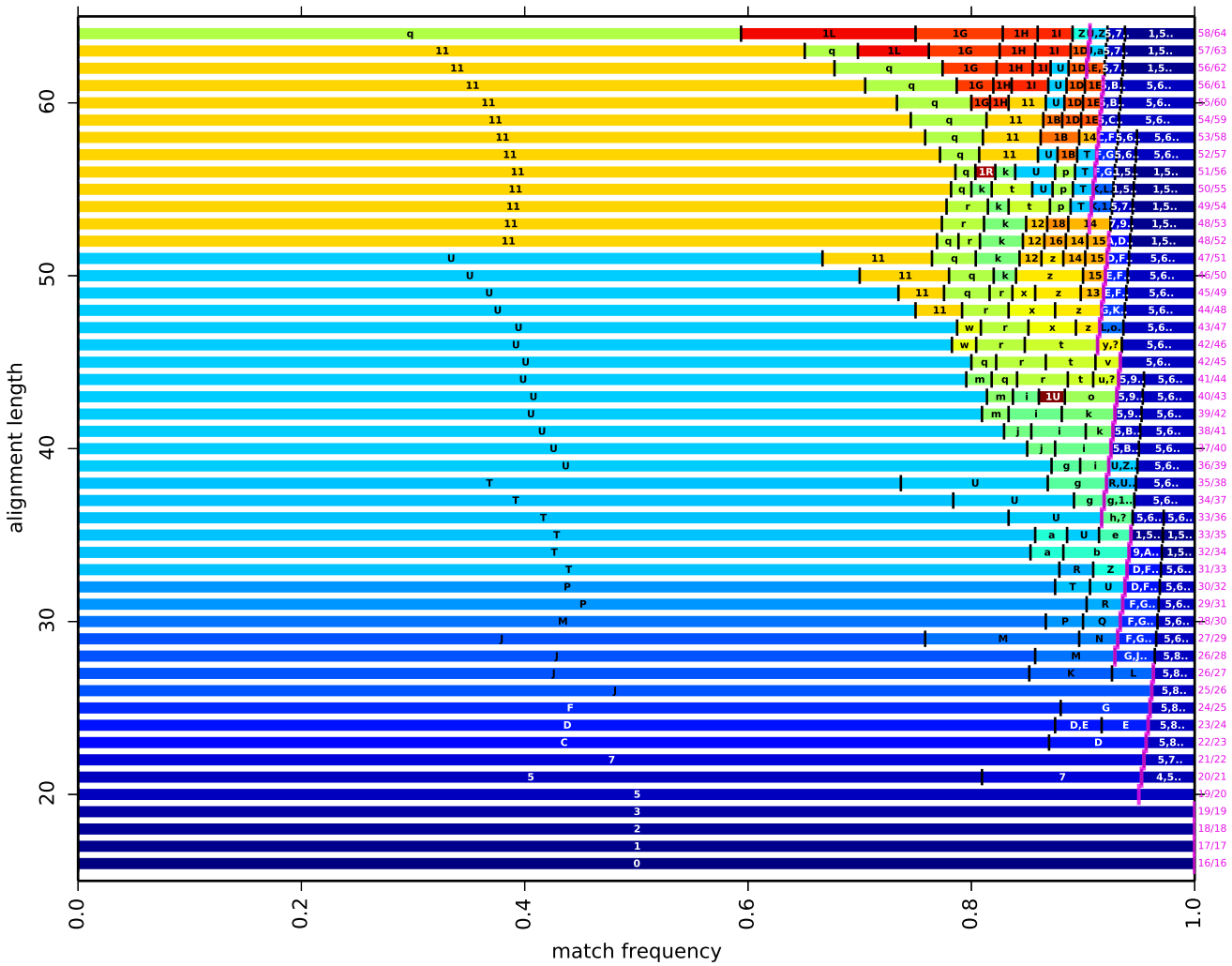


```

0 = 11111111111111111111111111111111
1 = 11111111111111111111111111111111
2 = 11111011111111111111111111111111
3 = 11111011111111111111111111111111
4 = 11101111111111111111111111111111
5 = 11101111111111111111111111111111
6 = 11111111111111111111111111111111
7 = 11101011111111111111111111111111
8 = 11111111111111111111111111111111
9 = 11111111111111111111111111111111
A = 11101111111111111111111111111111
B = 11101111111111111111111111111111
C = 11101011111111111111111111111111
D = 11101110111111111111111111111111
E = 11101110111111111111111111111111
F = 11101110111111111111111111111111
G = 11101110111111111111111111111111
H = 11101111111111111111111111111111
I = 11101111111111111111111111111111
J = 11110111011111111111111111111111
K = 11101110111111111111111111111111
L = 11101110111111111111111111111111
M = 11101110111111111111111111111111
N = 11101110111111111111111111111111
O = 11101111111111111111111111111111
P = 11101110111111111111111111111111
Q = 11101110111111111111111111111111
R = 11101110111111111111111111111111
S = 11101111111111111111111111111111
T = 11101110111111111111111111111111
U = 11101110111111111111111111111111
V = 11101111111111111111111111111111
W = 11101110111111111111111111111111
X = 11101110111111111111111111111111
Y = 11101110111111111111111111111111
Z = 11101110111111111111111111111111
a = 11101110111111111111111111111111
b = 11101110111111111111111111111111
c = 11101110111111111111111111111111
d = 11101110111111111111111111111111
e = 11101110111111111111111111111111
f = 11101110111111111111111111111111
g = 11101110111111111111111111111111
h = 11101110111111111111111111111111
i = 11101110111111111111111111111111
j = 11101110111111111111111111111111
k = 11101110111111111111111111111111
l = 11101110111111111111111111111111
m = 11101110111111111111111111111111
n = 11101110111111111111111111111111
o = 11101110111111111111111111111111
p = 11101110111111111111111111111111
q = 11101110111111111111111111111111
r = 11101110111111111111111111111111
s = 11101110111111111111111111111111
t = 11101110111111111111111111111111
u = 11101110111111111111111111111111
v = 11101110111111111111111111111111
w = 11101110111111111111111111111111
x = 11101110111111111111111111111111
y = 11101110111111111111111111111111
z = 11101110111111111111111111111111
10 = 11101110111111111111111111111111
11 = 11101110111111111111111111111111
12 = 11101110111111111111111111111111
13 = 11101110111111111111111111111111
14 = 11101110111111111111111111111111
15 = 11101110111111111111111111111111
16 = 11101110111111111111111111111111
17 = 11101110111111111111111111111111
18 = 11101110111111111111111111111111
19 = 11101110111111111111111111111111
1A = 11101110111111111111111111111111
1B = 11101110111111111111111111111111
1C = 11101110111111111111111111111111
1D = 11101110111111111111111111111111
1E = 11101110111111111111111111111111
1F = 11101110111111111111111111111111
1G = 11101110111111111111111111111111
1H = 11101110111111111111111111111111
1I = 11101110111111111111111111111111
1J = 11101110111111111111111111111111
1K = 11101110111111111111111111111111
1L = 11101110111111111111111111111111
1M = 11101110111111111111111111111111
1N = 11101110111111111111111111111111
1O = 11101110111111111111111111111111
1P = 11101110111111111111111111111111
1Q = 11101110111111111111111111111111
1R = 11101110111111111111111111111111
1S = 11101110111111111111111111111111
1T = 11101110111111111111111111111111
1U = 11101110111111111111111111111111

```


$$\sum_x \text{Heaviside}(n;2,w;15)$$



```

0 = 1111111111111111,1011111111111111
1 = 11111111111111,1111011111111111
2 = 1111101111111111,110111111111011111
3 = 1111101111111111,110111111111011111
4 = 1111011111111111,111111111111011111
5 = 1111011111111111,111111111111011111
6 = 1111111111111111,111110111111111111
7 = 1110111111111111,111111111111010111
8 = 11111111111111,111111011111111111
9 = 1111111111111111,111111111111011111
A = 1111011111111111,111111111111010111
B = 1111011111111111,111111111111010111
C = 1110111111111111,111111111111010111
D = 1111011101111111,11111111011110010111
E = 1111011101111111,111111010111110010111
F = 1111011101111111,1111110010110101111
G = 1111011101111111,111111010011100101111
H = 1110111111111111,1111110100111101111
I = 1110111111111111,111111100111011111
J = 1111011101111111,1111110100110101111
K = 11110111011101111,11111100101100101111
L = 1111011101111111,11111110100101001111
M = 11110111011101111,1111110100110010101111
N = 11110111011101111,11111101001100101001111
O = 11101111111101111,11111011010011101111
P = 11110111011101111,1111110100010100101111
Q = 11110111011101111,11111101001000101001111
R = 11110111011101111,1111110100010010001111
S = 1111110111111111,11101111111101101111
T = 11110111011101111,111110100101000101111
U = 11110111011101111,11111100010001100101111
V = 11101111110101111,11111101001011101111
W = 11110111011101111,111111010100010101111
X = 1111011101111111,11111100100101000110111
Y = 11110111011101111,11111100100101000101111
Z = 11110111011101111,111111010010001100101111
a = 11110111011101111,111111000101000101111
b = 11110111011101111,111111010001001010001111
c = 11101111011101111,11111100010100100101111
d = 11101111011101111,1111110000110010101111
e = 1111101110111111,111101000011001010011111
f = 11101101111101111,111111101001101111
g = 111101100110101111,1111110010001100001010111
h = 11110111101101111,111111000010001100101111
i = 111101100110101111,1111110010000100000101111
j = 111101100110101111,11111101001000010100011111
k = 111101100111011111,111101100100001010001001111

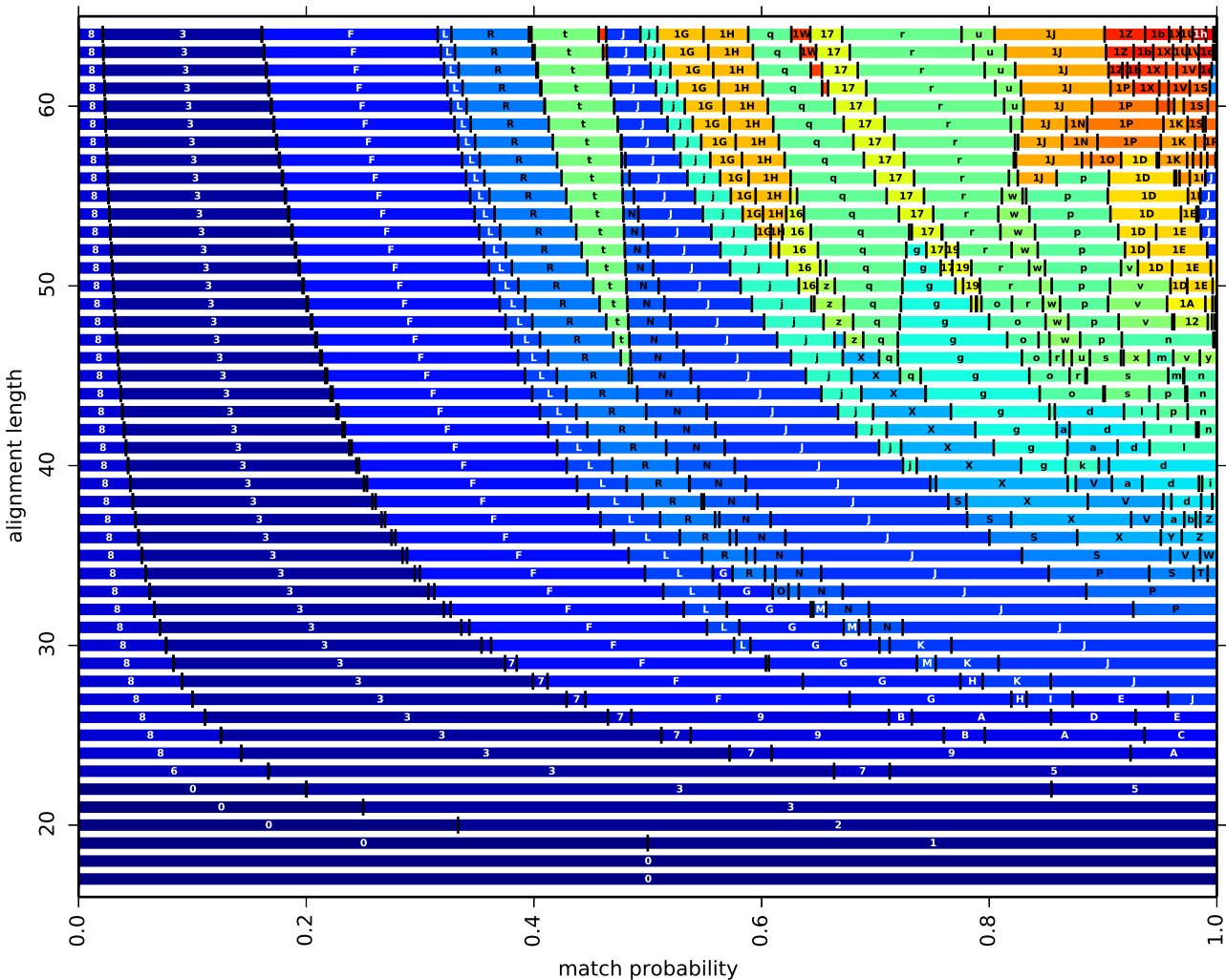
```

```

l = 111101110110111111,11111101011001010011111
m = 11110110011101011111,111101100100001010001101111
n = 11111001101101011111,1111100110001001000010101111
o = 11110110101110011111,111101101000010001000100011111
p = 1111010111011101111,111110100110010100101111
q = 111101011001011101111,1111101000110001000100101111
r = 11110011011010101111,11111010100001001000011001111
s = 11110011011010101111,11111010100001001000010011111
t = 11110101011011001111,111101010000010010000110011111
u = 11101011010110011111,111111000010000101000100110111
v = 1111100110110101111,11111001100011000000010101111
w = 111101011110011111,111111010001010001001101111
x = 111101001100110101111,111101100100001000010010101111
y = 11110101011011001111,11111101000100001001000011010111
z = 11110101010011001111,1111010101000001000001001101111
10 = 111101101110111111,111110011001010010101111
11 = 1110110111010101111,11110101001100010010011111
12 = 1111011001110101111,11110110010000101000010101111
13 = 1111010011010101111,1111100110000100001000010101111
14 = 111101110111011111,111110100011001010101111
15 = 111101110111011111,1111101001110100101111
16 = 111101110110101111,1111001100010010010101001111
17 = 11101101101011101111,1111101000110010010101111
18 = 111101101011011111,1111001010000100010010011111
19 = 111101101011011111,1111010010000100010010011111
1A = 1111010111011101111,111101001100101001011111
1B = 1110110110110101111,1111100011000110010101111
1C = 111101011101101111,1111100110010100101111
1D = 1110110110101101111,111110111011000001100101111
1E = 111101110110111111,111110100101001100011111
1F = 111101101111011111,111110100110001001011111
1G = 11110110011001101111,1111101000001100010101111
1H = 11110100110110101111,11110101000010010000101001111
1I = 1111010101110101111,1111011011000001100010101111
1J = 111011110110101111,111111010001011001011111
1K = 111101110110111111,111110010011001101011111
1L = 11101011001100110101111,11111010000110000101001111
1M = 111011011111011111,1111100111010110011111
1N = 111011011111101111,1111101011100011011111
1O = 111101110110101111,111110100001100110011111
1P = 111101011101101111,111101100110001001011111
1Q = 111101110110111111,11111001010001101011111
1R = 11101100110110101111,111101010001000100100001101111
1S = 11101101100110101111,111101100000101000010101111
1T = 111101011110111111,111111110010101111
1U = 11110110011010101111,11111010100001001000011001111

```

Bernoulli (n:2,w:16)



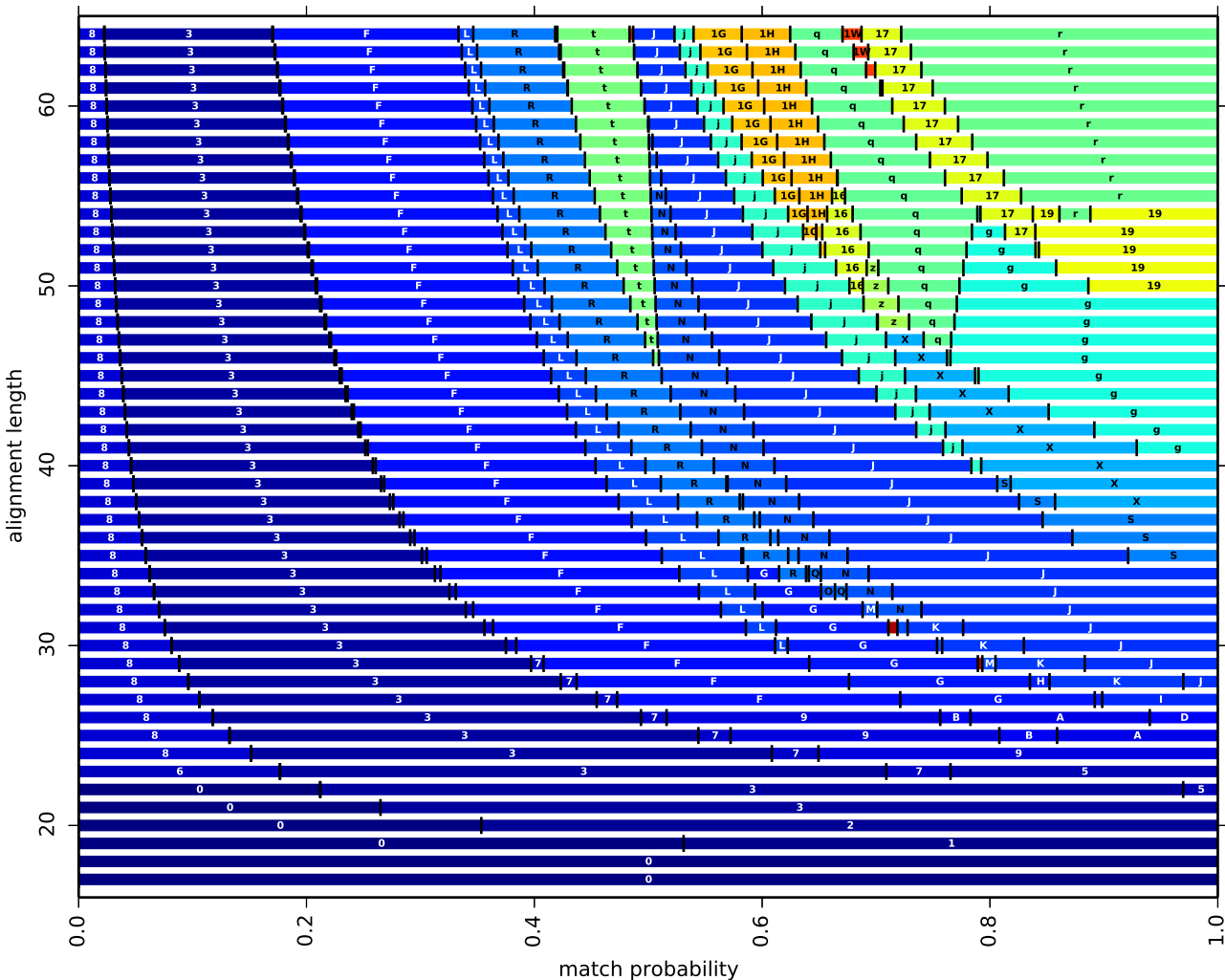
```

0 = 1111111111111111,1111101111111111
1 = 1101111111111111,1111101111011111
2 = 1111101111111111,1111111111010111
3 = 1111011111111111,111111011101101111
5 = 1110110111111111,111111111101010111
6 = 1111111111111111,1111110111111111
7 = 1111011111111111,1111110101010111
8 = 1111111111111111,1111110111111111
9 = 1110110111111111,111111011101010111
A = 1111011111111111,111111011100101111
B = 1111011011111111,111111111101010111
C = 1111011111101111,111101110011010111
D = 1111011011111111,11111101011001101111
E = 1111011011111111,111111001110101001111
F = 1111011101111111,111111011101101111
G = 1110111101111111,111111001110101111
H = 1110111111010111,11111101001110101111
I = 1111011101111111,11111110010110010111
J = 1111011011101111,1111110100110010101111
K = 1111011111111111,11111100101001011111
L = 1110111111011111,11111101001111011111
M = 1111011101011111,11111101101110010111
N = 1110110111011111,1111110111010011001111
O = 1110111111010111,111111010011011111
P = 1111011101101111,111111010010101101111
R = 1110110111110111,11111110100111101111
S = 1111011101110111,1111110001010010101111
T = 1111011101101111,111111010011000101001111
V = 1111011101010111,11111010100100010101111
W = 11111010111010111,111110101001000100011111
X = 1111011101110111,111110101001000100011111
Y = 11110110111010111,1111110100011000010101111
Z = 1111110111011111,111111001010001010011111
a = 1111010101010111,1111101010001000100101111
b = 1111010101010111,111111010000100101010111
d = 1111101010101011,11111010100010010001101111
g = 11110110110110111,1111110100110001010011111
i = 1111101011101111,1111011000100010010011111
j = 1111011101110111,11111010100011001011111
k = 1111011011101011,1111101001000110010101111
    
```

```

l = 1111011001110101111,11111101000100011000010110111
m = 1111100110110101010111,1111101000010001000010101111
n = 111110011010110101111,111110011000100001000010101111
o = 11101110110101010111,1111110001010001000101010111
p = 1111010110110011010111,111110101000100100100001110111
q = 11110111011011010111,111101101001001010000111111
r = 1111010111001101010111,1111100100100001000010101111
s = 111110011101101010111,111110101000010010000110011111
t = 1110111111011010111,1111011010011101011111
u = 1111010111001101010111,1111101000011000100011010111
v = 111101011001101010111,111110100001000100100001010111
w = 1111010111001101010111,1111011000011001000010101111
x = 1111100110101101010111,11111011000100001000010101111
y = 1111100110101101010111,11111011000010001000010101111
z = 11110110111011010111,1111110010100010100011111
12 = 111110011010101010111,11111001101000100001000100101111
16 = 1111011101011010111,11111010001010011010101111
17 = 111101101101101010111,11111010001100010101001111
19 = 111101011101101010111,1111011000110010000101010111
1A = 1111100101011011001111,1111101000100001000100101111
1D = 11110011010101001010111,111101010010000100010000101001111
1E = 11110011010101001010111,111101100100001000100000100101111
1G = 1111011011011010111,111100111001010010100101111
1H = 111101110101010111,11111001010010101010011111
1I = 11110111011010111,1111010110001000100010101111
1J = 1111010111001101010111,111101100001100100001010101111
1K = 1111011011101010111,111110010100011010010101111
1N = 11110101011001101010111,111110100100001001010001101011
1O = 111100110110101010111,111110101000010010010001001111
1P = 111100110110101010111,11111010100001000100010001001111
1R = 111101110111010111,111111000011001010101111
1S = 111101110111010111,1111101001000110011010101111
1U = 1111101011011010111,111110101010010010001000110111
1V = 1111011011101010111,11111000110001001010101111
1W = 110111101011101010111,11111001010011000010101111
1X = 11110110011101010111,1111011001000101000010101111
1Z = 111101100101011010111,111101011001000101000010101111
1a = 111010101101101010111,11110100001000100100010011111
1c = 111011011010111010111,1111110001100010010101011
1h = 11101101101010111010111,1111010110001000110010101111
    
```

$$\int_0^x \text{Hit Integration (n:2,w:16)}$$



```

0 = 1111111111111111,1111101111111111
1 = 1101111111111111,1111101111011111
2 = 1111011111111111,111111111101101111
3 = 1111011111111111,111111111101101111
4 = 1111011111111111,111111111101101111
5 = 1110110111111111,11111111110110101111
6 = 1111111111111111,1111101111111111
7 = 1111011111111111,11111111110101101111
8 = 1111111111111111,1111111011111111
9 = 1110110111111111,11111111110101101111
A = 1111011101111111,11111110111100101111
B = 1111011011111111,11111111110101101111
D = 1111011011111111,11111101011100101111
F = 1110111101111111,11111110111101101111
G = 1110111101111111,11111100111010101111
H = 111011111101101111,11111101001110101111
I = 1111011101111111,111111100101100101111
J = 111101110110111111,11111100110010101111
K = 1111011101111111,11111100101101001111
L = 1110111111011111,11111101001111011111

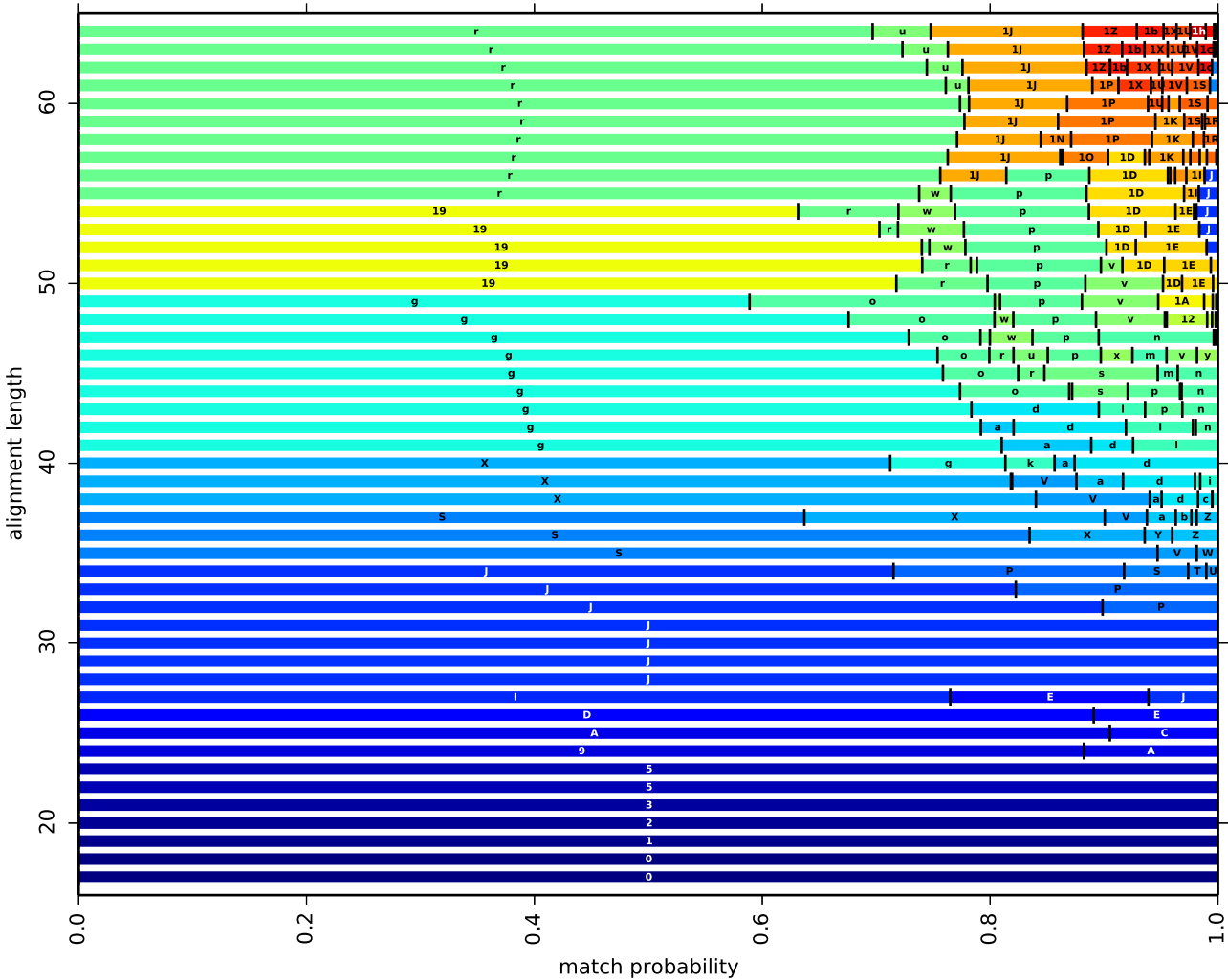
```

```

M = 111101110101111111,1111111011011100101111
N = 111011011110111111,1111110111010011001111
O = 111011111101101111,11111101001110111111
Q = 111011011110111111,1111110111001101011111
R = 111011011111011111,11111111010011110111
S = 111101110111011111,111111000101001011011111
X = 111101111011101111,111101010010011000111111
g = 11110110111011101111,11111010011000101001011111
j = 111101110111101111,111110110100011001011111
q = 11110111011011101111,11111011010010010100011111
r = 11110111001101101111,1111100100101000110001011111
t = 1110111111101101111,1111011010011101011111
z = 11110110111011101111,11111100101000110100111111
16 = 111101101101101111,11111001001010011010111111
17 = 111101101101101111,1111101000110001010100111111
19 = 11110101110110110111,1111101000110010000101011111
1G = 1111011011101101111,111110011001010010111111
1H = 11110111011011101111,11111001010011010100111111
1W = 11011110101110110111,11111001010011000101101111

```

\int_x^1 Hit Integration (n:2,w:16)



```

0 = 1111111111111111,1111101111111111
1 = 1101111111111111,1111101111101111
2 = 1111011111111111,1111111111011011
3 = 1111011111111111,1111111110110111
5 = 1110101111111111,1111111110101011
9 = 1110101111111111,1111111110101011
A = 1111011011111111,111111011100101111
C = 1110101111101111,111101110010101111
D = 1111010111111111,11111010111001101111
E = 1111010111011111,111110011101011001111
I = 1111011011111111,11111110010110010111
J = 1111011011101111,111110100110010101111
P = 1111011011101111,111110100010010101111
S = 1111011011101111,111110001001010101111
T = 1111011011101111,1111101001100010011111
U = 111010110110011111,1111111001000101001111
V = 1111011010101111,11111010010001100101111
W = 1111101011101111,111110100110001000101111
X = 1111011011101111,1111101001001100011111
Y = 1111011011101111,1111101000110000101111
Z = 111110111011111,1111100101000101001111
a = 1111101011101111,1111101000110001001111
b = 1111101011101111,11111010010010010101111
c = 1111011101010111,111111010001000100110111
d = 1111010110110111,111110101000010001101111
g = 1111011011101111,11111010011000101001111
i = 1111101011101111,111111000100010010011111
k = 111101110101111,111110100010001100101111
l = 111101100110101111,111110100010001100001011011
m = 111110011010101111,11111011000010001000010101111

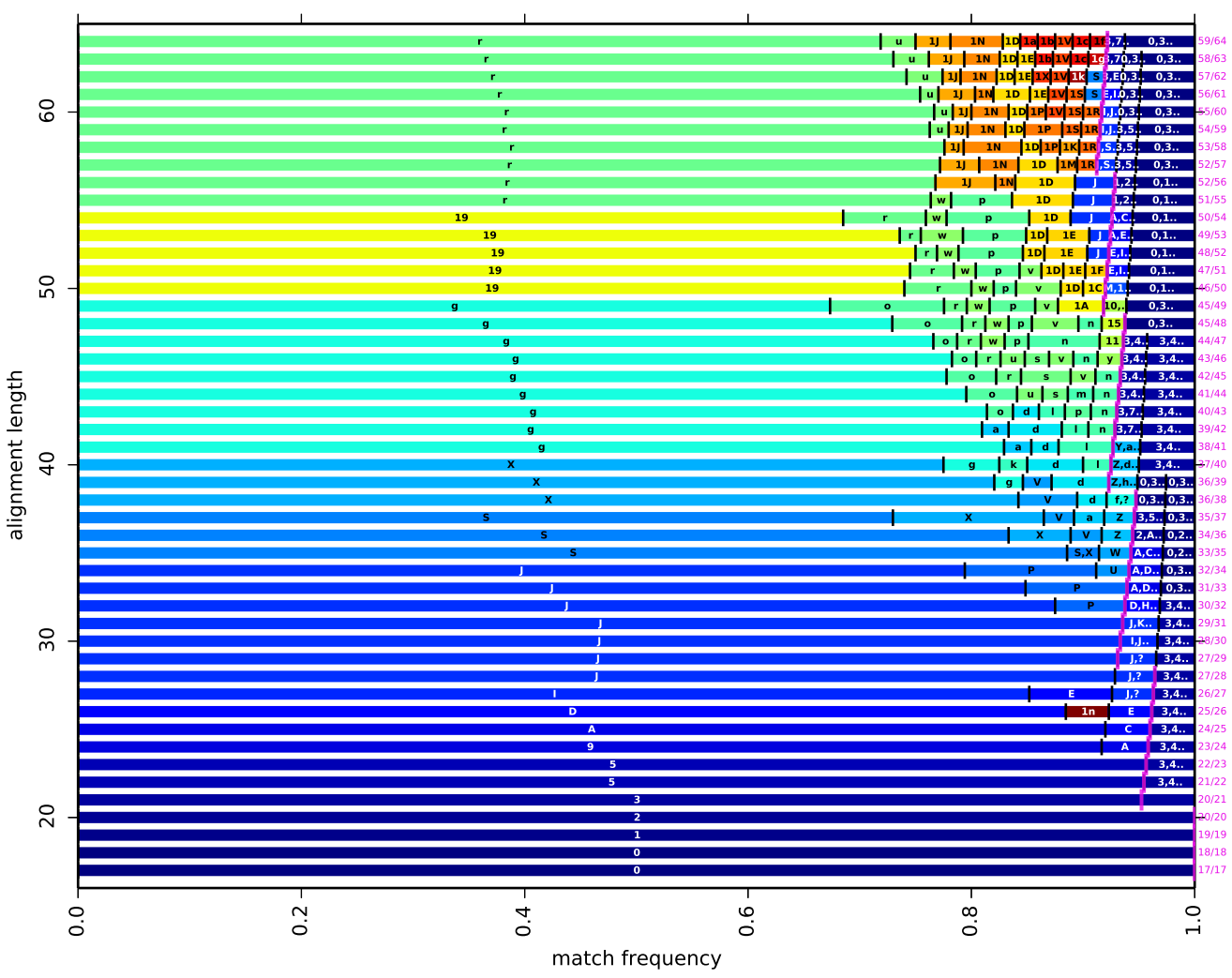
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```

n = 111110011010110101111,111110011000100001000010101111
o = 11101110110101101111,11111000101000100010101111
p = 1111010110110011101111,111110101000100100100001101011
r = 111101011100110101111,111110010010100011000101111
s = 11111001110110101111,1111101000010010000110011111
u = 111101011100110101111,1111101000011000100010101111
v = 1111010110011010101111,11111011000010001001000010101111
w = 111101011001101010111,1111011000011001000010101111
x = 111110011010110101111,11111011000100001000010101111
y = 1111100110101010101111,1111101000010001000010101111
z = 111110011010110101111,11111001101000100010000100101111
1A = 11110101110110101111,111110100011001000010101111
1D = 11110011010101100101111,1111010100100001000100001011001111
1E = 1111001101010100101111,111110100100001000100001001101111
1I = 1111011101110101111,1111010101001100010101111
1J = 111101011100110101111,11111010000110010000101010111
1K = 1111010111011010111,11111001010001100100101111
1N = 11110101010011010111,1111100100100001001010001101011
1O = 11110011011101010111,1111101000010010010001001111
1P = 11110011011101010111,1111010101000010010001001111
1R = 11110111011011111,111111000011001010101111
1S = 111101101110101111,111110100100011001100101111
1U = 111110101101101111,111110101001001000100011001111
1V = 1110110111010101111,1111100011000110010101111
1X = 1111011001110101111,1111101001000101000010101111
1Z = 1111010100101101111,11110101001000101000010101111
1b = 11101011011001111,111110100010000100010001001111
1c = 111011010101010111,111110001100010010101011
1h = 11101101010101101111,11110101100010001100101111

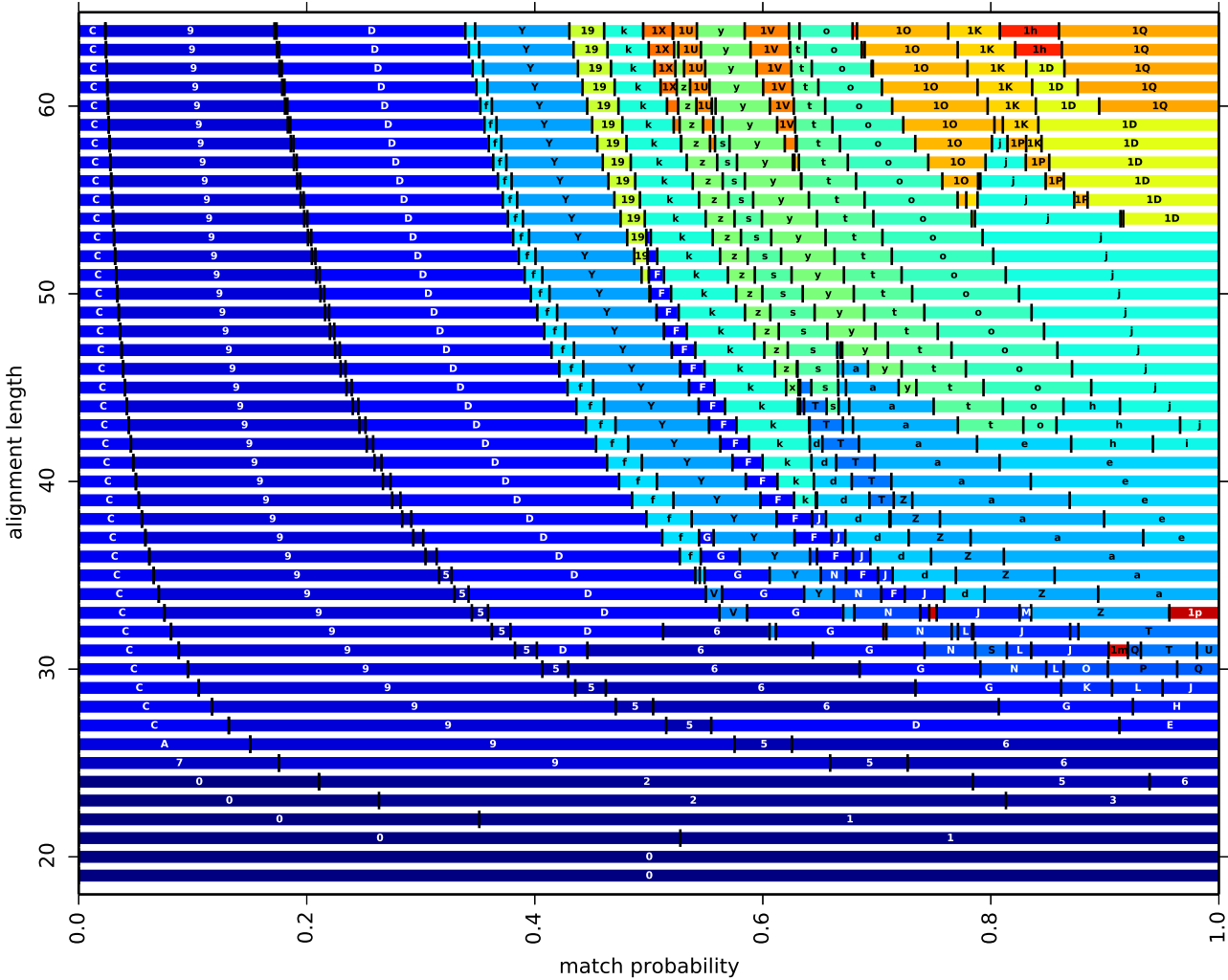
```


$$\sum_x \text{Heaviside}(n;2,w;16)$$



0 = 1111111111111111,1111101111111111
1 = 1101111111111111,1111101111101111
2 = 1111011111111111,1111111110110111
3 = 1111011111111111,1111111110110111
4 = 1111111111111111,1111101111011111
5 = 1110110111111111,111111111011010111
6 = 1111111111111111,1111101111111111
7 = 1110111111111111,111111111010110111
8 = 1111111111111111,1111111011111111
9 = 1110110111111111,111111111010101111
A = 1110111011111111,1111111011100101111
B = 1111011011111111,111111111010110111
C = 111011011111101111,11111011110010101111
D = 1111011011111111,11111010111001011111
E = 111101101110111111,111110011101011001111
F = 1110111101111111,1111110111101101111
G = 1110111101111111,1111110011101101111
H = 111011011101111111,11111010011010101111
I = 1111011011111111,1111110010100101111
J = 111101101110111111,11111010010010101111
K = 1111011101111111,11111100101101001111
L = 1110111110111111,1111101001111011111
M = 1111011010111111,11111101101100101111
N = 1110110111011111,11111011010011001111
O = 11101111101101111,111110100111011111
P = 111101110110111111,11111010001001011111
Q = 11101101111011111,1111110110010101111
R = 1110110111101111,11111101001110111
S = 1110111011101111,11111000101001011111
T = 11110111011011111,1111101001100010101111
U = 1110101101100111111,11111100100010101001111
V = 111101110101101111,111110101000100010101111
W = 111101011101101111,111110100010001000101111
X = 1111011101101111,11110101001001100011111
Y = 111101101110101111,11111010001000010101111
Z = 1111101111101111,111110010100110011111
a = 1111011011101111,11111010001000100101111
b = 1111010110111111,1111101000010010101111
c = 11110111010101111,11111010010000100101111
d = 1111010101101111,1111101000010010001101111
e = 11110011010101111,1111100010001000010101111
f = 11110011010101111,1111100100001000100101111
g = 1111010110110111,1111100110001010101111
h = 1111010101101111,11111010011000010101111
i = 1111010110110111,111110001000100010101111
j = 1111011011101111,11110110000100101111
k = 1111010111010111,111110100100010010101111
l = 1111010011101111,11111010001000100001010111
m = 111100110101010111,111110100001000100001010111
n = 111100110101010111,1111001000010000100001010111
o = 11101101101010111,111110001000100010010111
p = 11110101100110111,11110101000100100000110111
q = 1111011010110111,111101010010010100011111
r = 11110110011010111,1111001000100001000101111
s = 1111001101010111,1111010100001001000011001111
t = 1110111111010111,1111011001110101111
u = 11110101110011010111,11111010000110001001010111
v = 11110101001101010111,111110100001000100001010111
w = 11110101110011010111,11110100001100100001010111
x = 1111100110101010111,111110100001000010001010111
y = 1111100110101010111,111110100001000010001010111
z = 111101101110110111,1111100101000101001111
10 = 11110110011001010111,1111101010000011000010010111
11 = 1111001110101010111,1111100010000100010010010111
12 = 1111100110101010111,1111001010001000100010010111
13 = 111101010110101111,1111101010001000100001000111
14 = 111101011100110010111,11110101000010000100010111
15 = 1111010101100110010111,111100101000010010000010110111
16 = 111101101011010111,11110010010100101010111
17 = 111101011010110111,1111010001000101010010111
18 = 11110101011010111,111101000100010001001010111
19 = 111101011101010111,1111010001001000001010111
1A = 11110010101101001111,111110101000100001000010010111
1B = 1111001101010010111,11111010000100001000010010111
1C = 111101010110100111,11111010100010000000010010111
1D = 11110011010110010111,1111010100001000010000010100111
1E = 11110011010110010111,111101010010000100010000010010111
1F = 1110110011101001010111,111110001000010000001010001111
1G = 11110110110110111,111110011001010010111
1H = 11110110110110111,1111001001010101001111
1I = 1111011011101111,111101010011000101111
1J = 1111010110011010111,1111010000110010000101010111
1K = 1111010110110111,11110010100010100101111
1L = 11110101110110111,1111010001000100101001111
1M = 1110110101110111,11111001010101001100111
1N = 11110101010011010111,111110010000100101000110111
1O = 111100110101010111,111110100001001000010010111
1P = 111100110110101011,1111010100001000010001001111
1Q = 11110110110110111,111101010001001001010111
1R = 1111011101101111,1111100001100101010111
1S = 11110110111010111,11110100010001001010111
1T = 1110110111110111,111110100101001011011
1U = 11111010110110111,1111010100100100010001111
1V = 1110110111010111,111110001100010001010111
1W = 11011101011010111,11110010100110001010111
1X = 11110100111010111,11110100100010100001010111
1Y = 11101011111010111,1111010100010001110111
1Z = 111101010010110111,11110101001000101000010111
1a = 111101010001010111,11110010100100001001010111
1b = 111010101011001111,1111010000100010010001111
1c = 1110110101010111,11111000110000100101010111
1d = 111101011011010111,111101001100010001010111
1e = 1111010111010111,10110101010001000011111
1f = 1111010111010111,111110101001000011111
1g = 1111011011011111,111110001010010101101
1h = 111011010101010111,111101010001000100101111
1i = 1111011101111111,1111101010101010111
1j = 1111011111101111,11111110100110111
1k = 1111010111010111,10101010010001000011111
1l = 111011010101010111,11110100010001001001010111
1m = 11110100110101010111,11110101000011000010010111
1n = 1110110111011111,11111011101010001111

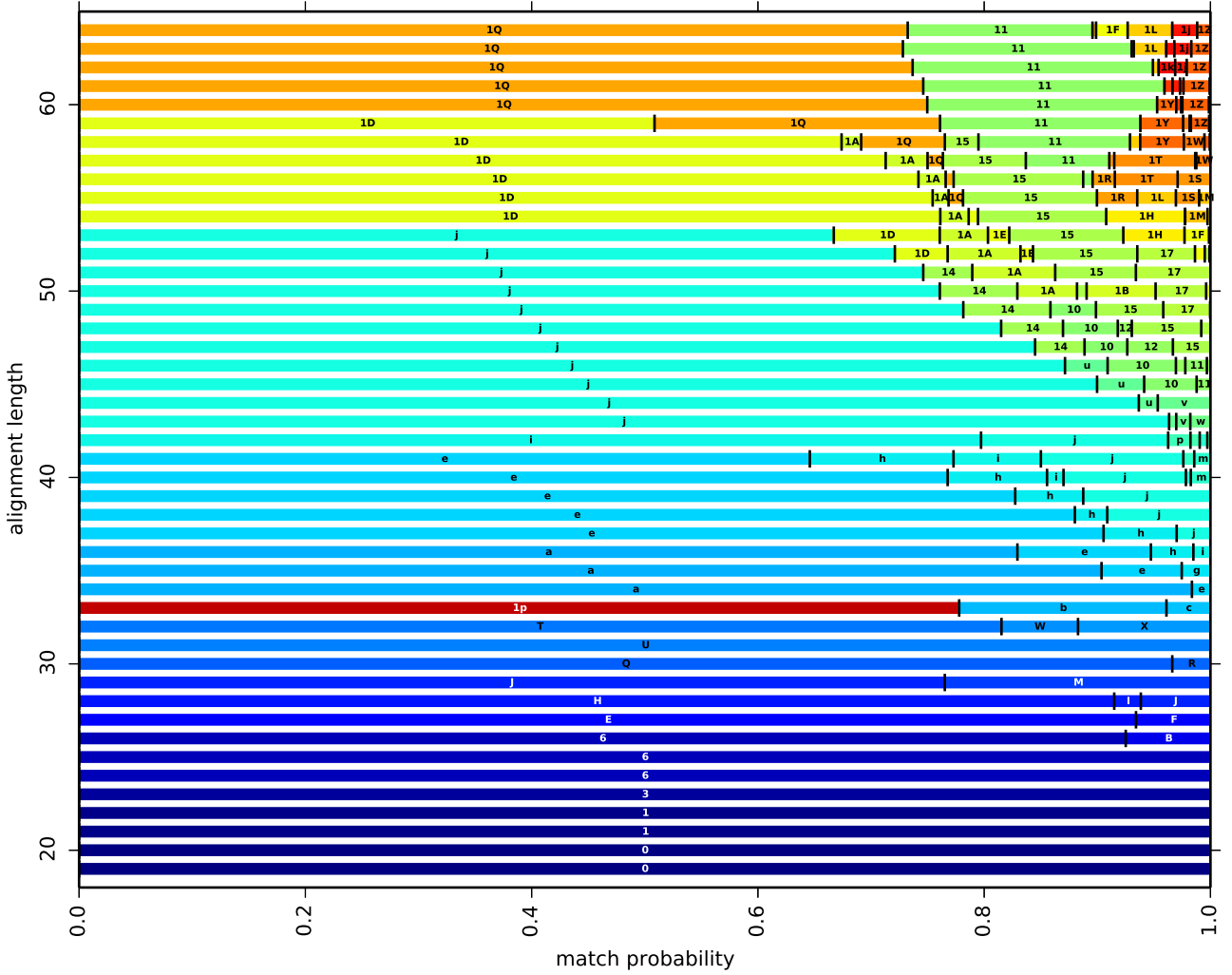
\int_0^x Hit Integration (n:2,w:18)



0 = 111111111111111111,111111011111111111
 1 = 111111011111111111,110111111111011111
 2 = 111011111111111111,111111111101101111
 3 = 111011011111111111,11111111110110110111
 5 = 111011111111111111,11111101101101101111
 6 = 111011011111111111,11111111111011010111
 7 = 111111111111111111,111111011111111111
 9 = 111101111111011111,11111111011011011111
 A = 111111111111111111,111111101111111111
 C = 111111111111111111,111111110111111111
 D = 111110110111111111,11011111111101101111
 E = 111101111011111111,11101101111101101111
 F = 111011111101101111,11111010011011101111
 G = 111011111111011111,11111101010011111111
 H = 111010111011111111,1111011101111000101111
 J = 111011111101101111,1111101101110011011111
 K = 111011011011111111,11111110111001011111
 L = 111011111101101111,1111110001011011011111
 M = 111101011110111111,111110101110011010011111
 N = 111010111011111111,1111111000110011010111
 O = 111101101101111111,1111110101110011011111
 P = 111011111101101111,1111101001101011011111
 Q = 111011111011011111,111111010011100101011111
 S = 111101011011111111,1111111100111011011111
 T = 111101110110111111,111110100111001010101111
 U = 111101101111011111,111111001011100101011111
 V = 111011111011111111,11111101111011011111
 Y = 111010111011111111,11111110111010110111

Z = 111101110110111111,111111001100101101011111
 a = 111101101110111111,11111101001100101101011111
 d = 111011011110111111,111110110101001110111111
 e = 111101110110111111,11111010001100101100111111
 f = 111011111110111111,1111101011011110111111
 h = 11110110110111101111,1111110100110001010011011111
 i = 11110110110110111111,111111000110001001011011111
 j = 11110101101101101111,1111101000110001001010111111
 k = 111101111011011111,1111001010111011101111
 o = 11110110110111101111,1111110010110010100011011111
 s = 111011110110111111,11111010011001011011011111
 t = 111011011011011111,1111101011001010011001111111
 x = 111101110111011111,111110110101001110101111
 y = 111101101101101111,11111010011000111011011111
 z = 111101101111011111,1111101011011000111011111
 19 = 111010111111011111,1111111010010111101111
 1D = 11110110110101010111,111101001001000100011011111
 1K = 11110110110101010111,11111001001000100101011111
 1O = 11110110110101010111,1111010100110100011001101111
 1P = 11110110110101010111,1111011000101100010010101111
 1Q = 1111010110110011010111,111101010001100001010010101111
 1U = 11110110111011011111,11110110100110110101011111
 1V = 11110111011011011111,1111001010100110101011111
 1X = 111010101111011111,111101110110011101011111
 1h = 1111010011101010101111,111110010101001001000111111
 1m = 111101101111011111,1111110010110101101111
 1p = 11110110110110111111,111111001011001101011111

\int_x^1 Hit Integration (n:2,w:18)



```

0 = 111111111111111111,111111011111111111
1 = 111111011111111111,111011111111101111
3 = 111011101111111111,11111111111011010111
6 = 111101110111111111,11111111111101010111
B = 111011111110111111,11111101101111010111
E = 111101111101111111,1111011101111011010111
F = 111011111101101111,111111000110111010111
H = 111011011101111111,111101110111100010111
I = 111101110111111111,111111010111000101111
J = 111011111101101111,1111101101011000110111
M = 111101101111011111,111111010110001010001111
Q = 111101110111011111,1111110001110001010111
R = 11111010110111011111,111101100011100010101111
T = 1111011101101101111,11111010001100010101111
U = 111101110111011111,111111001011100010101111
W = 111101111011101111,1111100010011100010101111
X = 111101110111011111,111111000101100010101111
a = 111011101110111111,1111110100010001010101111
b = 111011111011101111,1111110011010100010101111
c = 111110111011101111,111111000100010001000101111
e = 111110111011101111,11111101000100010100011111
g = 111101111011011111,11111101000100010100011111
h = 11101110110111101111,11111101001100010100101111
i = 11110110111101101111,111111000010000100010101111
j = 11111011011011101111,11111101000100001001011111
k = 11110110111011101111,111111010001100010001011111
m = 11111001110110101111,111111010001010001010011111
p = 1110111101101110101111,11111100010100110001001011111

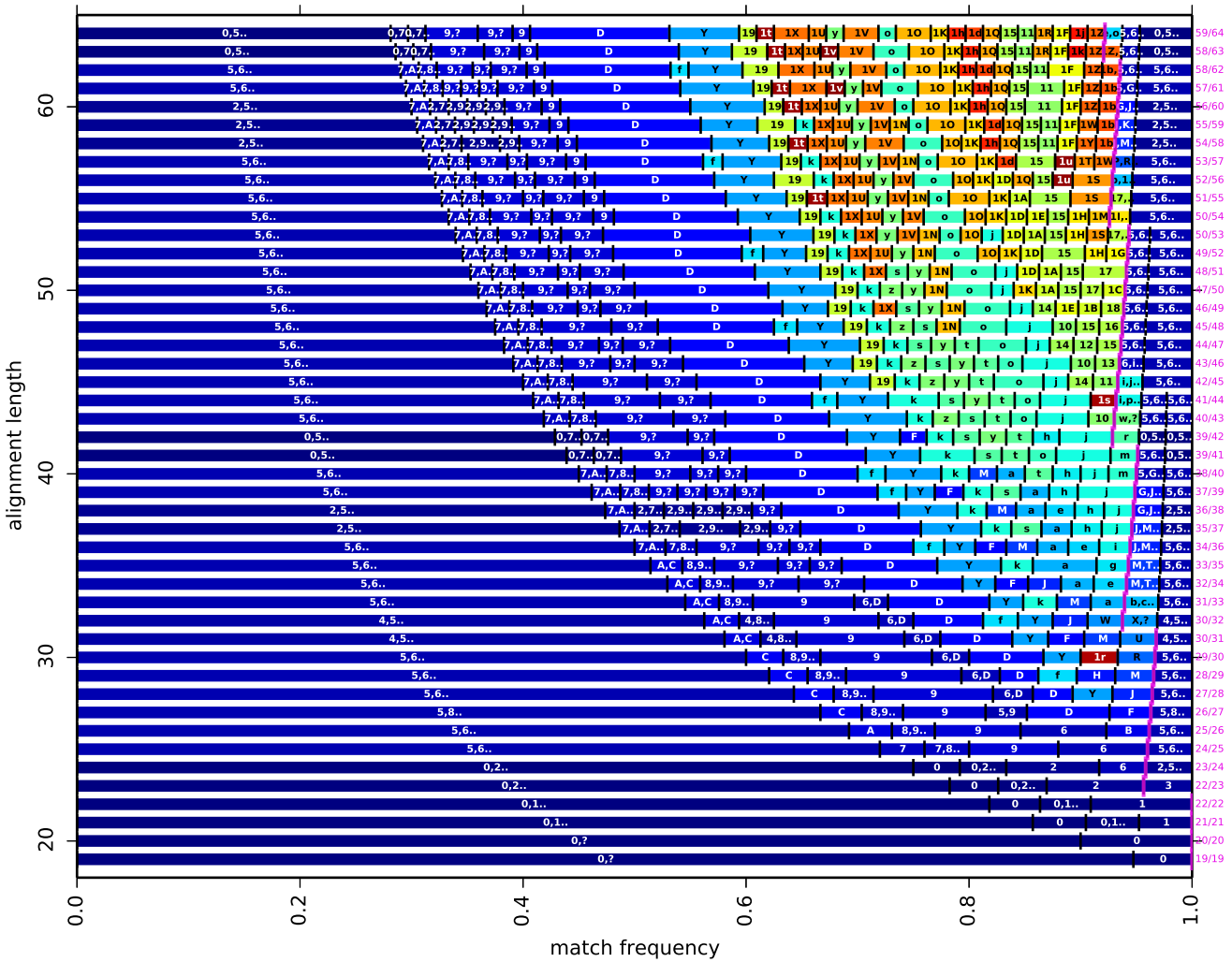
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```

u = 111110101101101101111,1111110100010000100010011111
v = 1111100111011010101111,1111110110001000101000110011111
w = 11110110110101101111,1111101001000100001010011111
10 = 11111010110110011101111,11111101000100010001010011111
11 = 1111011001101101010111,111101101001000100011000010101111
12 = 11110111010011101001111,11111100101001001000100011101111
14 = 1111100111010101010111,1111101001001000100010101111
15 = 111101011101000101010111,1111101010000100001000101010111
17 = 1111101001110101010111,11111010001000100010100101111
1A = 1111010101101100110111,1111110011000101000100100101111
1B = 1111101001110101010111,111110110001000100010000110101111
1D = 11111011011101010111,11111010010001000100010101111
1E = 11110110101011001010111,11111011001000011000010010101111
1F = 11110110101011001010111,11111001101000010100010000100101111
1H = 1111101001110101010111,111111001000100010001000100101111
1L = 111101100111010101010111,11111100100001000100010010101111
1M = 111101101100110001010111,1111101100001000010001001010101111
1Q = 1111010101100111010111,1111101010001100001010010101111
1R = 11110111001101101010111,11111000110000100100010010101111
1S = 11110101001010101001111,1111110101001000100000100001001111
1T = 111100110101010101001111,111111001000010000010010001001111
1W = 111101101010110111001111,1111101010010000100001001001001111
1Y = 1111010101010101001111,11110101010000100100100001100011111
1Z = 11110111101110110111,1111101011001001101000111111
1j = 11110110111011101111,1111100110001000010101011111
1k = 1111011010111011001111,111101010100010010010000110011111
1p = 111101110110111101111,11111100101100110101011111

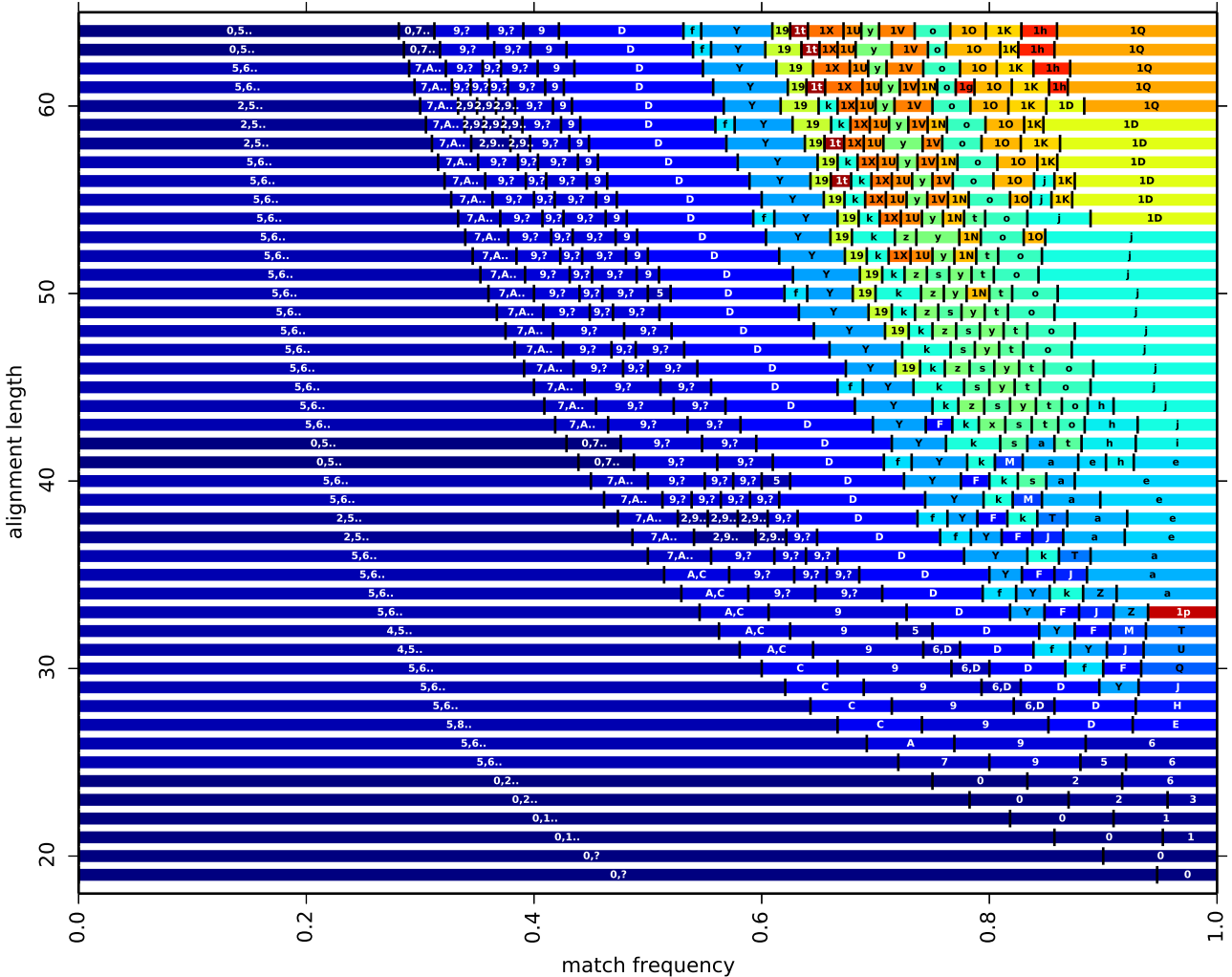
```

Dirac (n:2,w:18)



z = 111101101111101111,1111101011000111011111
10 = 1111010110110011011111,1111101000100100010100111111
11 = 111101011001101101011111,1111010100100010001010111111
12 = 1111011010011010011111,1111100101001000100010111111
13 = 1111010101101100111111,111110100100010000010100111111
14 = 1111100110101101011111,1111101000100010001010111111
15 = 11110101101100110101111,111101010000100010001010111111
16 = 1111011000101110101111,111101101000010010100000100111111
17 = 1111011001101010111111,11110110001000100010100101111111
18 = 1111010011010011011111,11110101000000100001010100111111
19 = 11101101111110101111,1111111010010111011111
1A = 11110101011011011111,111110010001010001001001011111
1B = 111110100110101011111,11110110001000100010001010111111
1C = 1111011011011000111111,11111000100100100010001010111111
1D = 1111011011010101011111,111101010010010001000101011111
1E = 1111011010110011011111,11110110010000100001001010111111
1F = 1111011010110011011111,11110011010001010001000101011111
1G = 1111100110110100111111,11110101000010000010000010111111
1H = 1111011001101010101111,11111001000001000010001001011111
1I = 1111011010101010101111,11110101000010001000010001011111
1J = 11101110110110101111,11111000100100010101011111
1K = 11110110101010101111,11111001001000100010101011111
1L = 11110110110101011111,11111001001000100010101011111
1M = 111101001101010101111,11111001000010000100010101011111
1N = 11110110110110111111,111101001101000101011111
1O = 11110110110101101111,11110101001101000101011111
1P = 111101101101011111,11111010001010001000101011111
1Q = 1111010110100110101111,1111010100010000101000101011111
1R = 1111011001101010101111,1111000100001001001000101011111
1S = 111101010010110011111,11111010100010000100001000110011111
1T = 1111000101010101001111,111100100010000100001000100111111
1U = 11101101110110101111,111101101001101010101111
1V = 11110111011010101111,11110010100101001010101111
1W = 11110110101011001111,111101010100010000100100110001111
1X = 111010101110111111,11110101001101011111
1Y = 1111010101010101001111,1111010100001000100001000111111
1Z = 1111011011011011111,111101010001000101000010111111
1a = 111101110110111111,1111101000101010100111111
1b = 11110111011011011111,1111101000100010101011111
1c = 1111011011101101111,111101000010001001010011111
1d = 1111011011101101111,111101000010001001010011111
1e = 1111011011101101111,11111010000100010010011111
1f = 11101111110101111,111101010101110101111
1g = 111101101101101111,111101010010001010011111
1h = 111101101011011111,1111010010001000101011111
1i = 111101101101011111,11111000100001000101011111
1j = 1111010101010101111,1111100010001000100101011111
1k = 111101111010101111,11110001010110110101111
1l = 1111011011010101111,11110010010001000101011111
1m = 1111001101010101111,11111010001000001000101011111
1n = 111101011001010101111,111110010100010000101011111
1o = 11110110101010101111,11110001000100001001011111
1p = 11110110110010101111,11110101000000100010101011111
1q = 1111011001100100101111,11111000010000010100010101111
1r = 111101101101101111,111110010010100010101111
1s = 111101011001010101111,1111101010001000010001001011111
1t = 111010111101011111,11110110011001010101111
1u = 111100010101010101111,1111001000010000010000100011111
1v = 11110101011010101111,11110010000100001010101111
1w = 1111011001101010101111,111101010000100010010101111

$$\sum_0^x \text{Heaviside}(n;w:18)$$

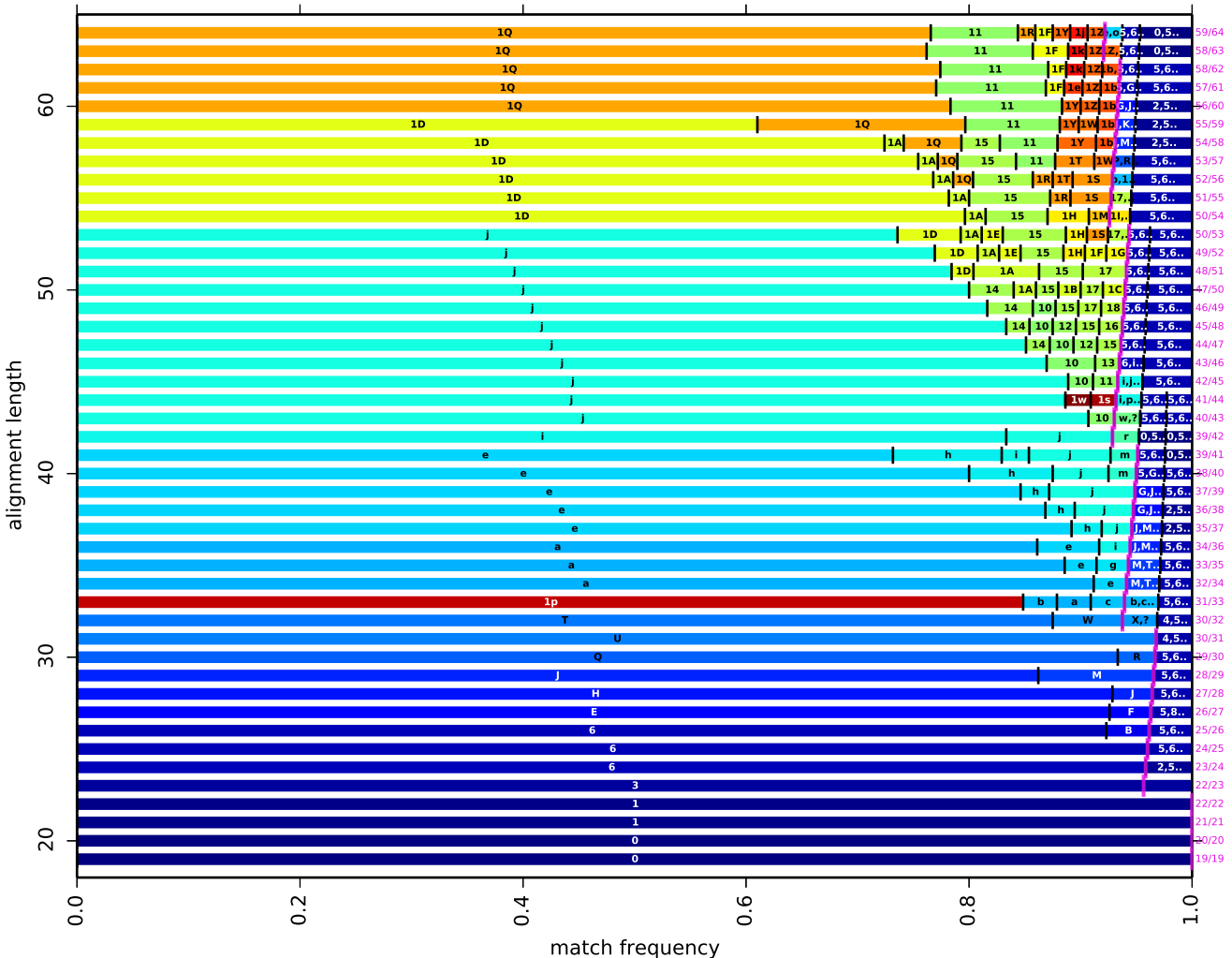


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0 = 111111111111111111,111110111111111111
1 = 111111011111111111,111011111111011111
2 = 111101111111111111,111111111101101111
3 = 111011101111111111,1111111111011010111
4 = 111111111111111111,111110111011111111
5 = 111101111111111111,111111101101101111
6 = 111101101111111111,1111111111010110111
7 = 111111111111111111,111111101111111111
8 = 111111111111111111,111111111101111111
9 = 111110111111111111,111111111101101111
A = 111111111111111111,111111111101111111
B = 111011111111011111,11111110110111010111
C = 111111111111111111,111111110111111111
D = 111110111011111111,11101111111101101111
E = 111110111101111111,11111011011110110111
F = 111011111101101111,11111101001101110111
G = 111011111111011111,11111101011001111111
H = 111011011101111111,11111011011110010111
I = 111101110111111111,11111101011100110111
J = 111011111101101111,111110110101100110111
K = 111101101101111111,111111111101110010111
L = 111011111110110111,11111100101101110111
M = 111101111101111111,1111101110011010011111
N = 111011011110111111,11111111001101101111
O = 111101110110111111,11111101011100110111
P = 111011111110110111,1111110100111010110111
Q = 111101111101101111,1111110100111001010111
R = 111110110111011111,111101001111001010111
S = 111101110110111111,111111111100111010111
T = 111110111101101111,1111110100111001010111
U = 111101110111011111,1111110010111001010111
V = 111011111101111111,11111101111011011111
W = 111101110110111111,1111010010011001010111
X = 111101110110111111,1111100010111001010111
Y = 111011011110111111,11111111110110110111
Z = 111101101101101111,1111111001100101011111
a = 111101101101101111,1111110011001010101111
b = 111101110110111111,1111110011001010101111
c = 111101101110111111,111111001010010100101111
d = 111101101111011111,1111110101010010101111
e = 111101110110111111,111111010001100101001111
f = 111011111101101111,11111101011011101111
g = 111101111101101111,111111010100100101001111
h = 111101110110111111,11111101001100010101111
i = 111101101101101111,111111000110001001010111
j = 111110110110110111,111111010001100010010111
k = 111101111101101111,11110010101111010111
l = 1111011110110110111,111110011001000101001111
m = 11111011101101101111,1111111010001000101001111
n = 11110110110010110111,11111101010010000100101111
o = 111101110101101111,11111100101100101001111
p = 111011110110110111,11111100010100110001001111
q = 11111011011001101111,11111101100100000100101111
r = 11111011001100101111,1111110001010000011000110111
s = 111101111011011111,1111110010010101010111
t = 111101110110110111,111111010110010100100111
u = 111110110110110111,11111101000110001010011111
v = 11110011011010101111,111110110100010100011001111
w = 111101101101101111,11111101000100010001001111
x = 111101110111101111,11111101101010011010111
y = 111101110110110111,111111010011000111010111
z = 111101110111110111,1111101101100011101111
10 = 11110101101100110111,11111010001001000101001111
11 = 1111010110011011010111,1111011010010001000100101111
12 = 11110111001101001111,11111001010010001000101111
13 = 11110101101100111111,1111110100100011000010101111
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15 = 11110101110100110111,11110101000010001001010111
16 = 111101100011011010111,1111011101000100101000010111
17 = 11111011001101010111,1111101100010001000101001111
18 = 11110100111001101111,111101010100000100010010100111
19 = 111011011111101111,11111110100101110111
1A = 1111010101101110111,1111100110001010001001010111
1B = 11110110011010110111,1111011000100010001001010111
1C = 11110110111000111111,1111110001001001000100010111
1D = 111101101101010111,1111010100010001000100010111
1E = 11110110101100110111,111101100100001000010010111
1F = 11110101011100110111,1111001101000101000100010111
1G = 11111001101101001111,11110110101000110000100001111
1H = 1111011001101010111,11111001100001000100010010111
1I = 1111011010101010111,1111010100001000100010010111
1J = 1110111011011010111,1111100010100110001010111
1K = 1111011011010110111,1111100100100011001010111
1L = 111101101101010111,111110010001000100010010111
1M = 111101101100110010111,111110100001000010001010111
1N = 111101101101101111,11111010011010001010111
1O = 1111011101010110111,11110101001101000110010111
1P = 111101101110101111,111101100010100010010111
1Q = 111101011010011010111,11110101000100001010010111
1R = 1111011001101010111,11110001100001001001010111
1S = 11110101001011001111,11111010100010000100010111
1T = 1111001101011010111,111110010100010100010010111
1U = 111101101110110111,111110111001101010111
1V = 11110111011010111,1111001010100101010111
1W = 11110111010101100111,1111010101001000100010010111
1X = 111011011110110111,1111101100111010111
1Y = 11110101010101100111,11110101000010010000110001111
1Z = 11110111101101111,111101010010010100001111
1a = 1111011101101111,111110100010101001111
1b = 1111011110110111,1111101000110010101111
1c = 1111011011101111,11111010000100100010100111
1d = 1111011011001010111,1111010100010010001010111
1e = 1111011001101010111,111110010000100100100001010111
1f = 1111011110110111,11111010100010100101111
1g = 11110111010110111,1111010100110100011001111
1h = 1111011001101010111,1111001010010010010001111
1i = 1111011011010111,111101000101000100010010111
1j = 111101110110110111,1111010001100101010111
1k = 1111011011101100111,111101010001000010000100111
1l = 1111011101101111,111101000100010001001111
1m = 1111011011111111,11111000101010110111
1n = 1111011111011111,1111110001110111
1o = 1110110111011111,1111111010011010111
1p = 1111011101101111,11111100101001010111
1q = 111101101101010111,11110100101000100010111
1r = 1111011111011111,11111010101001010111
1s = 111101100110010111,1111110101000100010010111
1t = 1110110111101111,111110111001101010111
1u = 111100110101010111,11111001010001000010001111
1v = 111101101110110111,111100101000101010111
1w = 1111011001101010111,111101100001100010010111

```

$$\sum_x \text{Heaviside}(n:2,w:18)$$



```

0 = 11111111111111111111,111110111111111111
1 = 11111101111111111111,110111111111011111
2 = 11110111111111111111,111111111101101111
3 = 11101110111111111111,1111111111011010111
4 = 11111111111111111111,111101111011011111
5 = 11110111111111111111,111111101101101111
6 = 11110110111111111111,1111111111010110111
7 = 11111111111111111111,111111011111111111
8 = 11111111111111111111,11111011111101111111
9 = 11111011111111111111,111111111011011111
A = 11111111111111111111,111111101111111111
B = 11101111111011111111,11111101101110101111
C = 11111111111111111111,111111110111111111
D = 11111011101111111111,11011111111101101111
E = 11111011101111111111,11110110111101101111
F = 11101111110110111111,11111100011011101111
G = 11101111111101101111,11111101011001111111
H = 11101101110111111111,1111011011111100101111
I = 11110110111111111111,11111101011100101111
J = 11101111110110111111,1111011010111001110111
K = 11110110110111111111,11111111011110010111
L = 11101111111011011111,1111110001011011011111
M = 11110101111011111111,111110100110001010011111
N = 11101011110111111111,11111111001101101111
O = 11110110110111111111,11111101011100010111
P = 11101111110110111111,111111010011101011101111
Q = 11110111110110111111,111111010011100101101111
R = 11111010110110111111,111101100111100101011111
S = 11110110111011111111,1111111100011101101111
T = 11110111101110111111,111111010011100101101111
U = 11110110111101111111,1111110100111001010011111
V = 11101111110111111111,111111011111011011111
W = 11110111101101111111,111110010011100101101111
X = 11110111101110111111,111110001011100101101111
Y = 11101101111011111111,1111111110110110111
Z = 11110110111011111111,111111001100101010111111
a = 11110110111011011111,11111101001100101101011111
b = 11110111011011111111,11111100110010100101011111
c = 11111011101110111111,11111100101001011001011111
d = 11110110111101111111,111111010101001011011111
e = 11111011111011011111,11111101000110010110011111
f = 111011111110111111,1111110101101111101111
g = 11111011101101111111,11111101010010010110011111
h = 11110111011011101111,111111010011000101001011111
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j = 11111010110110111111,1111110100011000100101011111
k = 11110111110110111111,1111001010111011101111
l = 11111011101101011111,1111100110010100010100111111
m = 1111100111011010111111,1111110100010100010100111111
n = 1111010111001011011111,111111010100101000101001011111
o = 1111011101101111011111,111111001011001010001011111
p = 1110111101101110101111,11111100010100110001001011111
q = 11111010110110011011111,111101100100100000100101011111
r = 1111101110011001011111,11111100010100000110100011011111
s = 11110111101110111111,1111110010010101101011111
t = 1111011011011011011111,1111110101100101001010011111
u = 1111101011101101101111,111111010001100010100100111111
v = 1111001110110101011111,1111101101010001010001100111111
w = 1111011011101101111111,111111010010001100010100111111
x = 11110111011110111111,11111101101010100110101111
y = 1111011101110110111111,11111101001100011101101111

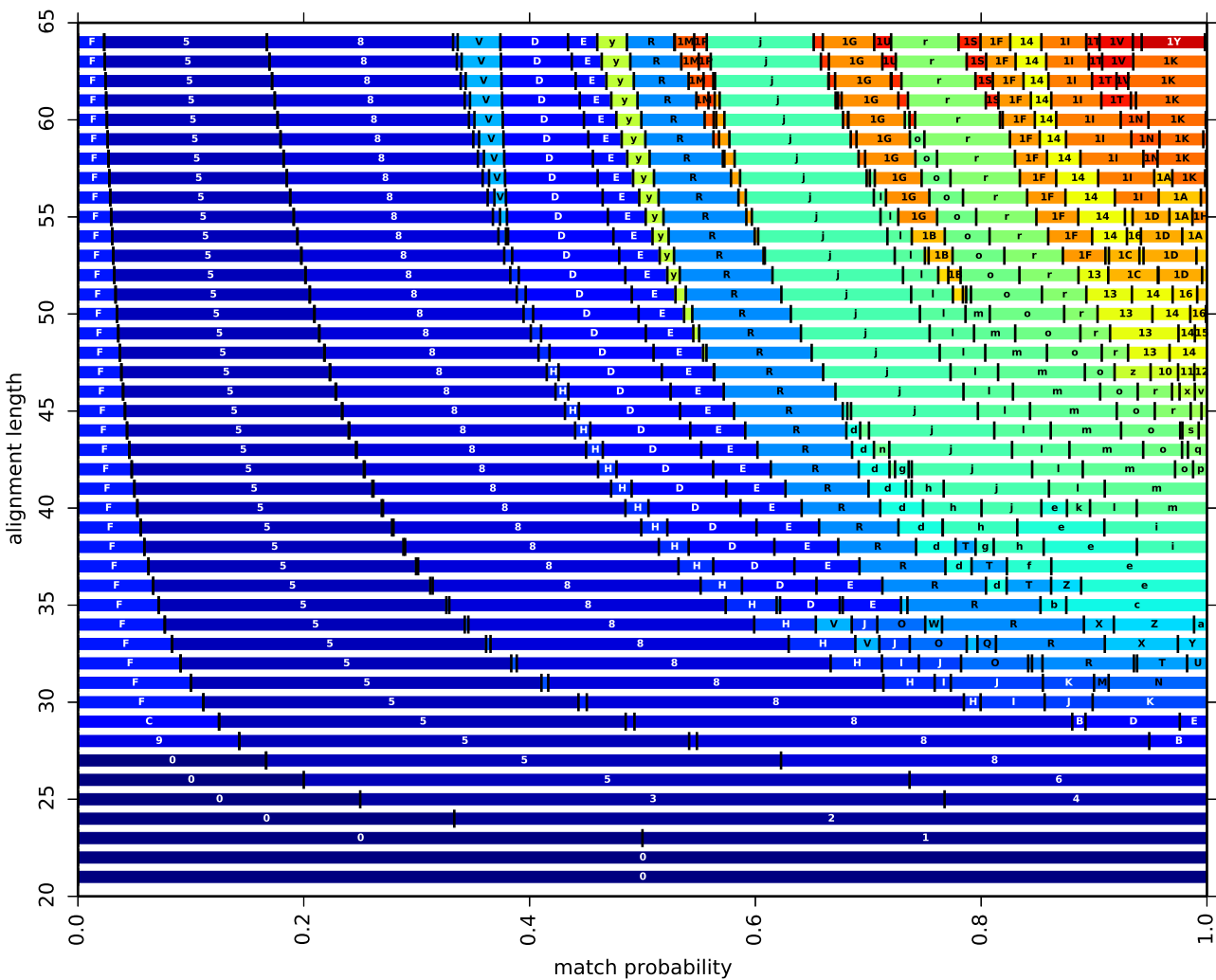
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z = 11110111011111011111,1111101011011000111011111
10 = 111110101101100111011111,11111101000100100010100111111
11 = 1111010110011011101011111,1111011010010001000110000101011111
12 = 111101110100111010011111,11111001101001001000100011011111
13 = 1111010101101100111011111,11111101001000011000001010011111
14 = 111110011101011011011111,11111101001000100011000101011111
15 = 1111010111011001101011111,111110101000011000100010101011111
16 = 1111011100011011101011111,1111011101000010010100000110011111
17 = 111110110011101011011111,111110110001000100010100100111111
18 = 1111101001110100111011111,1111101010000010000100101100111111
19 = 111011011111111011111,11111110100101110111
1A = 111101010110110011101111,111110011000101000100101011111
1B = 111110110011101011011111,11111011000100010001000101011111
1C = 11110110110111000111111,11111100010010010001000101011111
1D = 111101101110101011011111,111110101001000100010001011111
1E = 1111011010110011011111,111110110010000110000100101011111
1F = 11110110101110011011111,111110011010000101000100001001101111
1G = 11111010011101010111111,1111101010000110000100000111111111
1H = 1111011001110101011111,11111001100001000100010010111111
1I = 111101101010101101101111,11111010100001100010000100100111111
1J = 1110111101101110101111,1111100010100110001101011111
1K = 1111011110101010101111,111111001001010001100101011111
1L = 1111101001110101011111,11111001100001000100010010101111
1M = 1111011011001110010101111,111110110000100001000010101011111
1N = 111101110111101011111,11111101001101000110101111
1O = 1111011101101011101111,111110101001101000110011011111
1P = 111101110111011011111,11111010001011000100101011111
1Q = 111101011010011101011111,111110100010000100100101011111
1R = 111101110011011010101111,11111000110000100100100101011111
1S = 111101010010110110011111,111110101001000100001000110011111
1T = 11111000110101101011111,11111001100001000001001000100111111
1U = 1111011011101101101111,11111011101001101010101111
1V = 11110111011011011111,11111001010100110101011111
1W = 1111011101011011001111,11111010101001000010000100100110001111
1X = 111101101111011101111,1111101010001110101111
1Y = 111101010110110111011111,1111010100001001000100011000111111
1Z = 11111011110111011111,111110101001001010000101011111
1a = 11111011110111011111,111111011000101010011111
1b = 11110111110110111111,11111101100011001011011111
1c = 11111011111011011111,111111010000100100010110011111
1d = 11110110111001101011111,1111011000010011000100101011111
1e = 111011100110101101011111,111111001100000100100100001010101111
1f = 11111011110111011111,1111100100010100101011111
1g = 1111011101101011101111,1111101010011010001100111111
1h = 1111011001110101011111,111110010100110001100111111
1i = 111101101011011011111,11111010000101001000100110011111
1j = 111101101110111011111,1111011000110000110101011111
1k = 11110110101110111001111,111101011000010010001000110011111
1l = 1111011101110110111111,111110100010001001100111111
1m = 11110111011110111111,111111000101101011101111
1n = 11110111111011111111,111111010011101111
1o = 11101101111011111111,1111111010011101101111
1p = 11110111011101111111,11111100010100110111111
1q = 1111011011101101011111,11111001001010001000101011111
1r = 11110110111110111111,11111101101010011011111
1s = 11110111001100101011111,1111110101000100001001001011111
1t = 11101101111101111111,11111011110011010101111
1u = 111110011010101011001111,11111001010001010000100100111111
1v = 1111011011101101111111,111100101001101010101111
1w = 11111011001110101101111,1111101011000001100010011011111

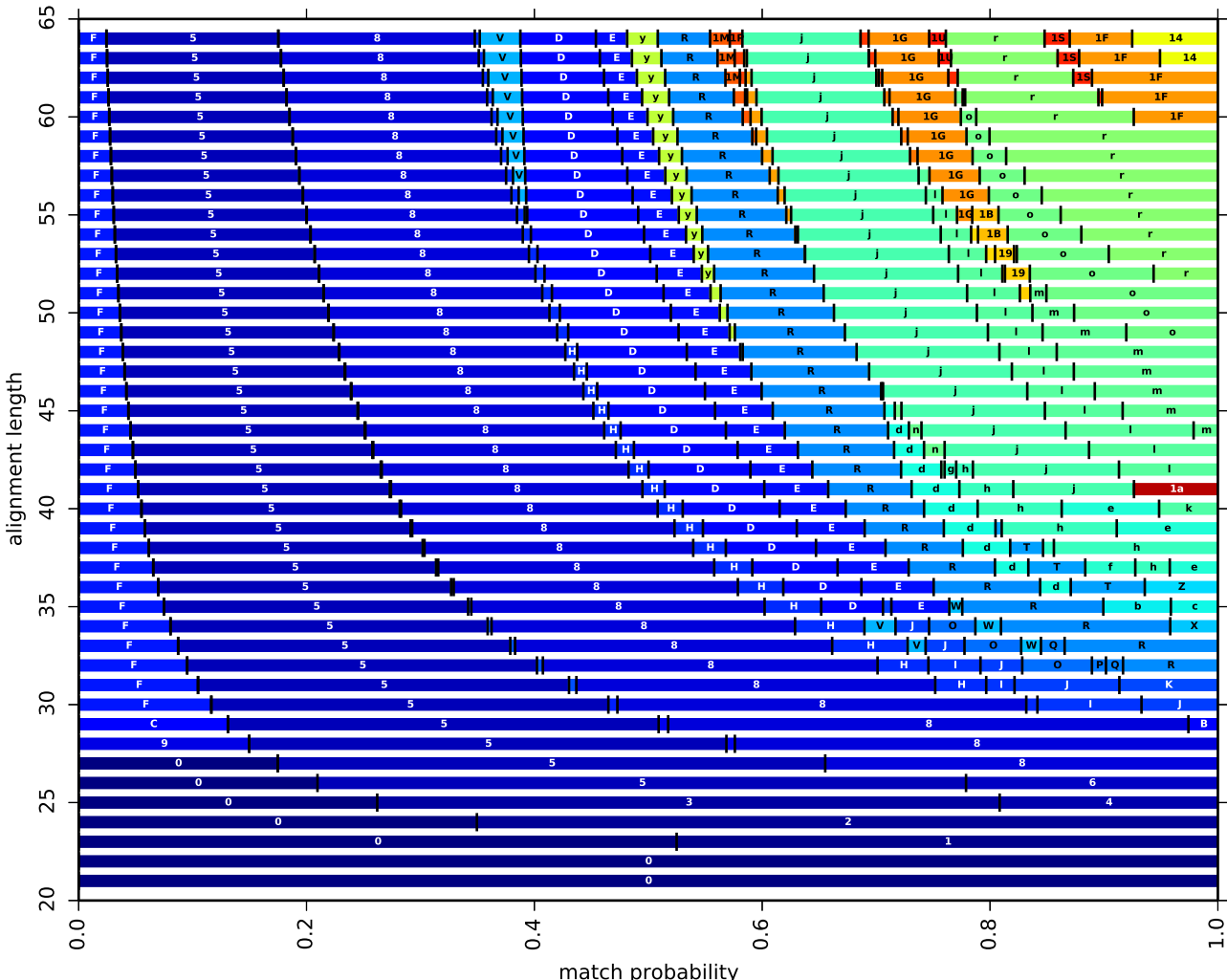
```

Bernoulli (n:2,w:20)



0 = 11111111111111111111,11111101111111111111
1 = 11111011111111111111,11010111111111111111
2 = 11111011111111111111,11111111111101110111
3 = 11111011111111111111,11111111111101110111
4 = 11111011110111111111,1110111111111111011011
5 = 11111011111111111111,11111111111101110111
6 = 11101111111111110111,11111101101110111111
8 = 11111101110111111111,1111011111111111011011
9 = 111111111111111111,11111110111111111111
B = 11111011101111111111,11101111111101101011
C = 111111111111111111,11111111011111111111
D = 11101101111111110111,1111111110101101110111
E = 11101101111111110111,1111111101011001110111
F = 111111111111111111,11111111101111111111
H = 111011111011111111,1111111101111101011011
I = 111011101111111111,111111111100101110111
J = 111101101110111111,1111111101111101011011
K = 111110110111011111,1111110110111110010111
M = 111110111011101111,111111100111110111010011
N = 111110111011101111,111111100111110011010111
O = 111101110111011111,11111110111111001011011
Q = 111101110111101111,11111110110110101110011
R = 111101110111101111,11111101101101101110011
T = 111110111011101111,11111110010111001101011
U = 111101110111011111,111110100111110100111011
V = 111011111011011111,1111111011111101011011
W = 111101110111101111,1111111100111101101011
X = 111110111011110111,111111010011110100111011
Y = 111110111011110111,1111111001011101001110011
Z = 111110111101110111,1111111010001110010110111
a = 1111011111010011101111,111110100111010111101001101
b = 111101110111110111,1111111001011100101110111
c = 111110111011110111,11111110010011100101110111
d = 111110111011110111,11111101101101100111010111
e = 111110111101110111,1111111001101010011001011111
f = 111110111011110111,111111101011010011100101111
g = 111110111101110111,111111101001101010110011111
h = 111110111101110111,11111110110010100101101111
i = 111110111101110111,111111011001000101001111111
j = 111101111011011111,111111001110100110010101111
k = 111110111101110111,111111101100101000101101111
l = 111110111011101111,1111110100111000101001101111
m = 111110111101110111,11111110110010100010100111111
n = 111110111101110111,111111100101011001101101111
o = 11111011101101110111,11111100110100100011001011111
p = 11111011101101110111,11111100110010100011001011111
q = 11111010011110110111,1111111000101000110100101111
r = 1111011101110110111,1111110010110001010011000101111
s = 1111011101110110111,1111110100101100001001011111
v = 1111101101101110111,11111100001010001100100101111
x = 111110111101101111,1111110100010100010100111001111
y = 111011011111011111011,11111111001110101101111
z = 111110111011011111,111111011000110000110010101111
10 = 111110111011001101111,11111101100010100001010011111
11 = 1111101110011101111,11111110001010001001010011111
12 = 1111101101101011100111,1111111001010001000100100011111
13 = 111110110111001110111,1111110110001000100010011111
14 = 111110110111001110111,1111110110000110001001011111
15 = 1111100111011011001111,11111110010001010100001100001111
16 = 111110111011011001111,11111001101000101001000010011111
1A = 111110110011101101111,111110011011000000100010010101111
1B = 1111101110110110111,1111110100110100011001011111
1C = 111110111011011001111,111111011000100010010001110111
1D = 111110111011011001111,1111101110000010010100011001111
1F = 11111011101101101111,11111101001010001001100110111
1G = 11110111101110101111,1111110101010011000110101111
1H = 1111101100111011001111,1111001101100000010010101111
1I = 1111010110011101100111,11111011100010001001000011001111
1K = 111110110011101100111,11111101001100000010001001010111
1U = 111110111001101101100111,1111101110001000100100001100111
1P = 111110111101110110111,1111101011010011011001111
1S = 111110110111001110111,111111000110001010010011001111
1T = 111110110011101101111,111111010011000010001001001100111
1V = 11111011101101110111,11111101000110011000101001111
1Y = 111110001101100110110111,111111011000100010000010001100111

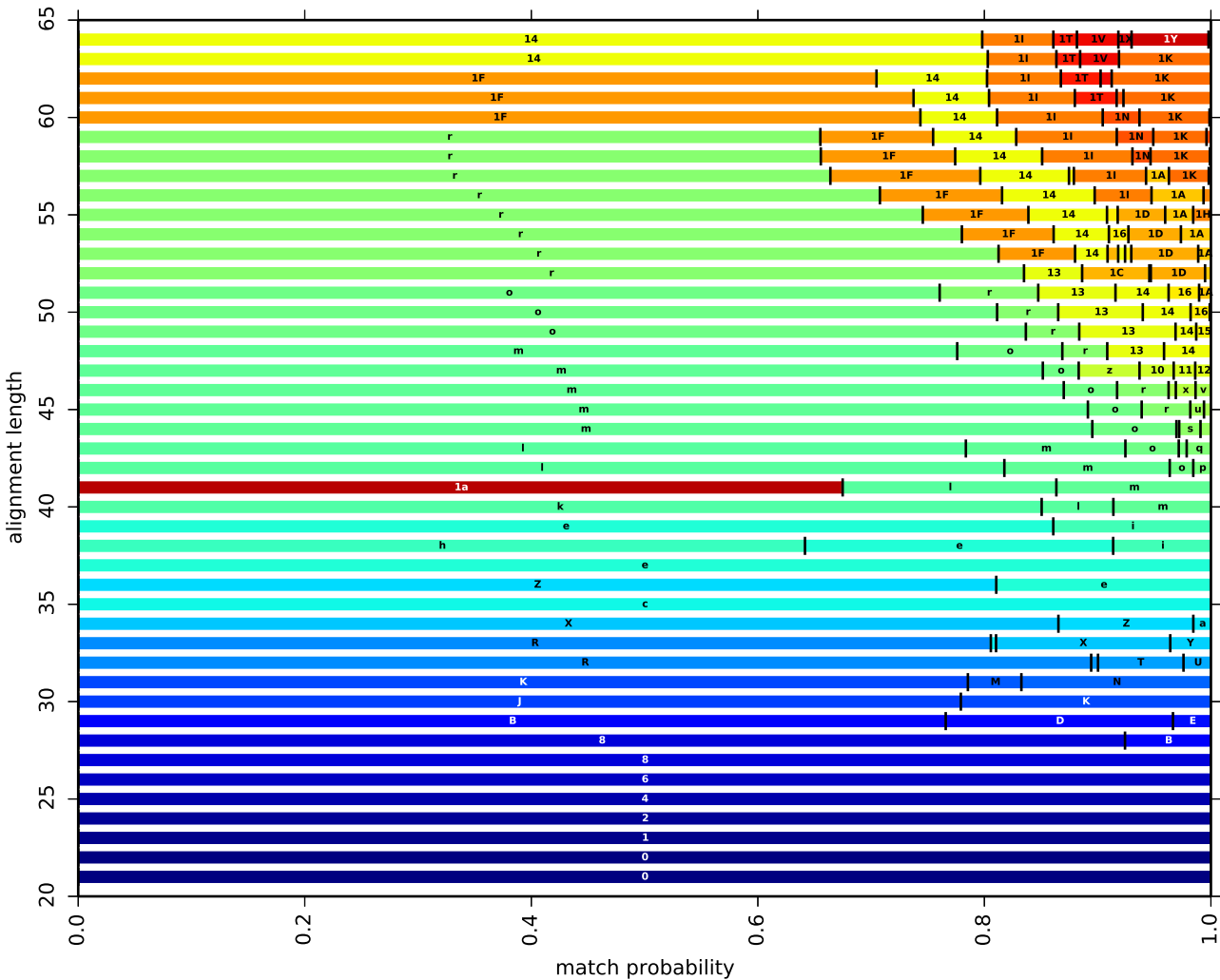
\int_0^x Hit Integration (n:2,w:20)



```

0 = 11111111111111111111,11111101111111111111
1 = 11111011111111111111,11010111111111111111
2 = 11111011111111111111,11111111111011110111
3 = 11111101111111111111,11111111111011101111
4 = 11111101111011111111,1111011111111101101111
5 = 11111011111111111111,1111111111101111011111
6 = 11101111111111110111,1111111011011011111111
8 = 11111101110111111111,1111011111111101101111
9 = 11111111111111111111,1111111101111111111111
B = 11111011101111111111,111101111111110110101111
C = 11111111111111111111,1111111101111111111111
D = 11101101111111101111,111111111010110111101111
E = 11101101111111101111,111111111011001110111111
F = 11111111111111111111,1111111111011111111111
H = 11101111101111111111,1111111101111101101101111
I = 11101110111111111111,111111111110010111011111
J = 11110110111011111111,111111111101111101101111
K = 11111011011101111111,111111101110111100101111
O = 11110111011011111111,111111101111110010110111
P = 11110110111011111111,111111111011110010101111
Q = 11110110111111011111,11111110110110101110011111
R = 11110111011111011111,11111101011011011100111111
T = 11111011101111011111,111111110010111001101011111
V = 11101111011011111111,111111101111110101101111
W = 11110110111011111111,1111111100111101101011111
X = 11111011101111101111,1111110100111101001110111111
Z = 11111011110111101111,1111111010001110010111011111
b = 11110111011111011111,111111100101110010111011111
c = 11111011110111101111,111111001001110010111011111
d = 11111011101111101111,111111011010110011101011111
e = 11111011110111101111,11111110011010100110010111111
f = 11111011101111011111,1111111010110100111001011111
g = 11111011110111011111,1111111010011010101100111111
h = 11111011110111101111,1111111011001010010111011111
j = 1111011110111011101111,1111110011101001110010111111
k = 11111011110111101111,11111110110010100010110111111
l = 1111101110111011101111,11111101001110001010010111111
m = 1111011110111011011111,111111101100101000101001111111
n = 11111011110111101111,11111110010101100110110111111
o = 1111101111011011110111,111111001101001000110010111111
r = 111110111011101101101111,1111110010110001010010111111
y = 11101101111101111110111,1111111100111010110111111
14 = 1111101110111001110101111,11111101010001100010010010111111
19 = 11111011110110111011111,1111110101001110001010011011111
1B = 111110111011101101101111,11111101001110001001010111111
1F = 111110111011001110101101111,111111010010100010100010011011111
1G = 111101111011011101101111,111111010101001100010100111111
1M = 1111011011111011011111,111110111010100110111011111
1P = 11111011101111011011111,111111011011010011101110011111
1S = 1111101110111001110101111,11111100011000101001001111111
1U = 1111011011110101101101111,11111101000110010110001101011111
1a = 1111101111011110111111,11111110100011100100110111111
    
```


\int_x^1 Hit Integration (n:2,w:20)

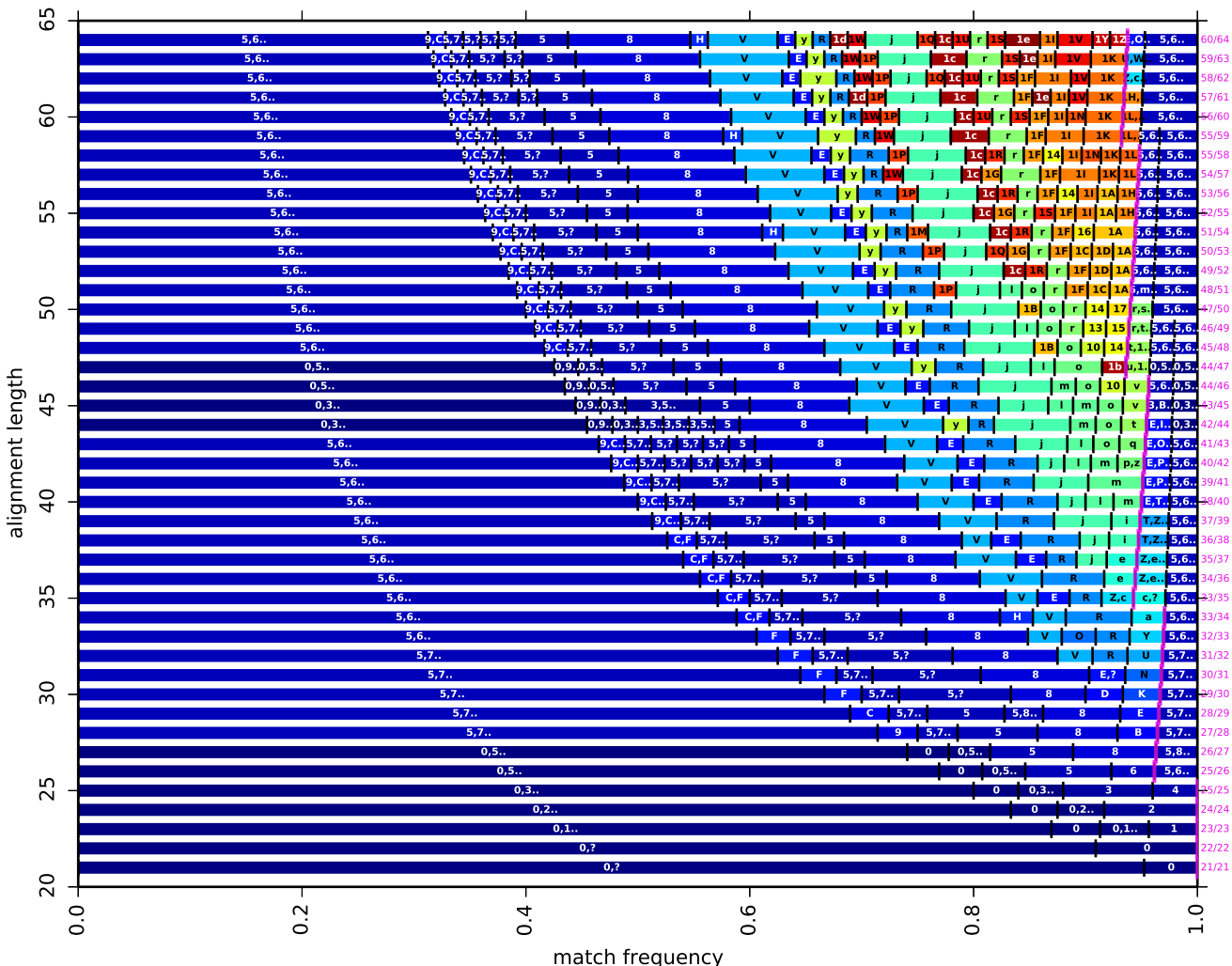


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0 = 11111111111111111111,11111101111111111111
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2 = 11111011111111111111,111111111111011110111
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N = 11111011101110111111,111111100111110011010111111
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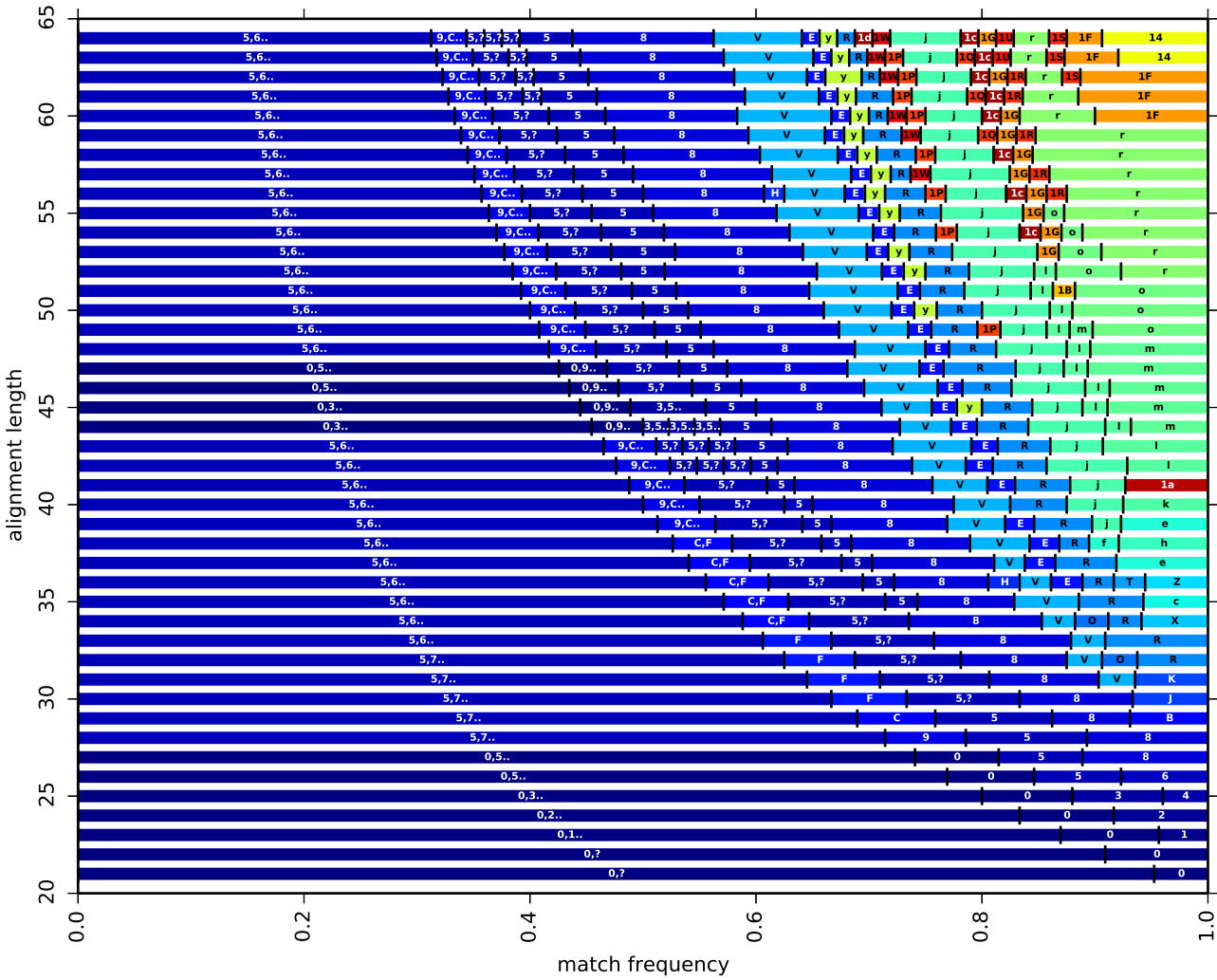
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Dirac (n:2,w:20)



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9 = 11111111111111111111,11111110111111111111
A = 11111011111111111111,11111111111011101111
B = 11111011011111111111,11101111111101101011
C = 11111111111111111111,11111111011111111111
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E = 1110110111111111011111,1111111101011001110111
F = 11111111111111111111,11111111101111111111
G = 11111101111111111111,11111011111101110111
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I = 11110111011111111111,1111111111100101110111
J = 11110110111011111111,1111111101111010110111
K = 11111011011101111111,1111110111011110010111
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Q = 11110111011110111111,1111110110110101100111
R = 11110111011110111111,1111101011011010110011
S = 11110111011110111111,1111110011110100110111
T = 11111011101110111111,1111110010111001101011
U = 111101110111011101111,11111010011110100111011
V = 11101111011101111111,11111101111111011011
W = 11110110111011111111,1111111001111011010111
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a = 11110111110100110101111,111101001110101111010011101
b = 11110111011111011111,111111001011100101110111
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e = 11110111101110111111,11111100110101001100101111
f = 11111011011101111111,11111101011010011100101111
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h = 11111011101110111111,1111110110010100101110111
i = 11111011110111011111,11111010110010001011001111
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l = 1111101110110111101111,11111101001100010100110111
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t = 111110101110011101111,1111110110010010000101000111
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v = 1111010110110111010111,111111000010100010010010111
w = 111101101110101110111,111111010100011000100100111
x = 1111101111010110011111,11111101000101000101001111
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1G = 11110111101101110101111,1111101010100110001101001111
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1Q = 1111011101110110101111,11111010011001010011001111
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1T = 1111101011001110101001111,11111010011000010000100100111
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1e = 1111011001110101010111,111110010010010100010001010111
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$$\sum_0^x \text{Heaviside}(n:2,w:20)$$



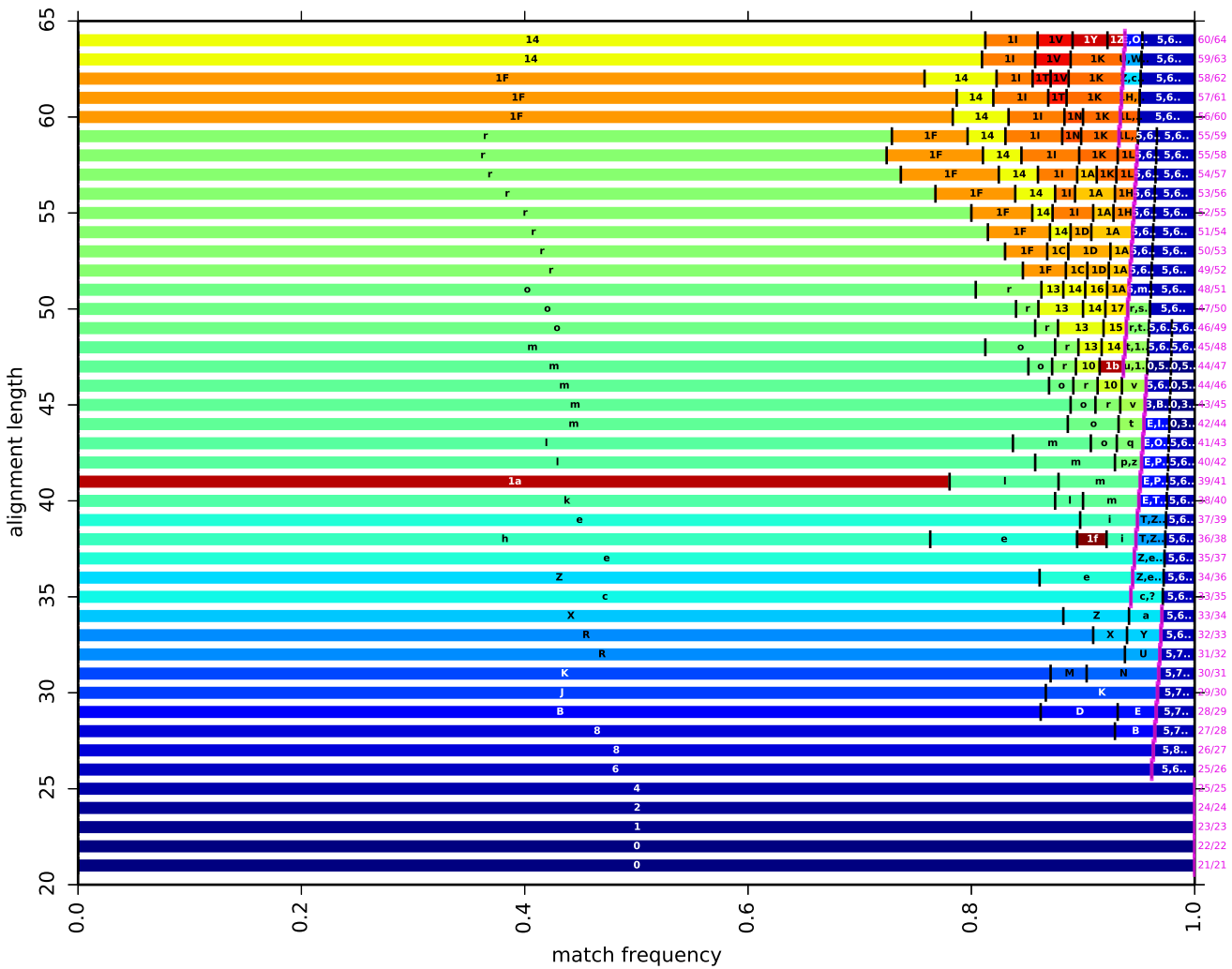
match frequency

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A = 11111011111111111111,1111111111011101101111
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C = 111111111111111111,11111111011111111111
D = 11010111111111011111,1111111101011011110111
E = 1101011111111111011111,1111111101011001110111
F = 111111111111111111,11111111101111111111
G = 11111110111111111111,1111101111110111011111
H = 11011111011111111111,1111111011111010110111
I = 11101110111111111111,1111111111100101110111
J = 11110110111111111111,11111111111010110111
K = 11110110111011111111,1111110111011110010111
L = 11110111111111111111,1111111110110111011111
M = 11110111011101111111,111111001111011101001111
N = 11110111011101111111,11111110011111001101011111
O = 11101110110111111111,111111101111110010110111
P = 11110110111011111111,111111111011110010101111
Q = 11101110111110111111,111111011011010111001111
R = 11101110111110111111,11111010110110101110011111
S = 11101110111101111111,11111100111101001101011111
T = 11110110111011111111,11111110010111001101011111
U = 1110111011101110111111,11110100111110100111011111
V = 11011110110111111111,111111101111110101101111
W = 11101101110111111111,1111111100111101101011111
X = 11110111011110111111,111111010011110100111011111
Y = 11110111101110111111,111111001011101001110011111
Z = 11110111101110111111,11111101000111001011011111
a = 111011111101001110111111,111101001110101111010011101
b = 1111011101111110111111,11111100101110010111011111
c = 11110111101110111111,111111001001110010111011111
d = 1111011101111110111111,111111011010110011101011111
e = 1111011110111101111111,1111110011010100110010111111
f = 1111011101111011111111,1111110101101001110010111111
g = 1111011110110111111111,11111101001101010100111111
h = 1111011110111101111111,11111101100101001011011111
i = 1111011111011101111111,1111101011001000101001111111
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l = 111101110110111101111111,1111110100111000101001111111
m = 111101111011101101111111,1111101100101000101001111111
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y = 11110101111011111101111111,1111111100111010110111111
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$$\sum_x \text{Heaviside}(n;2,w:20)$$

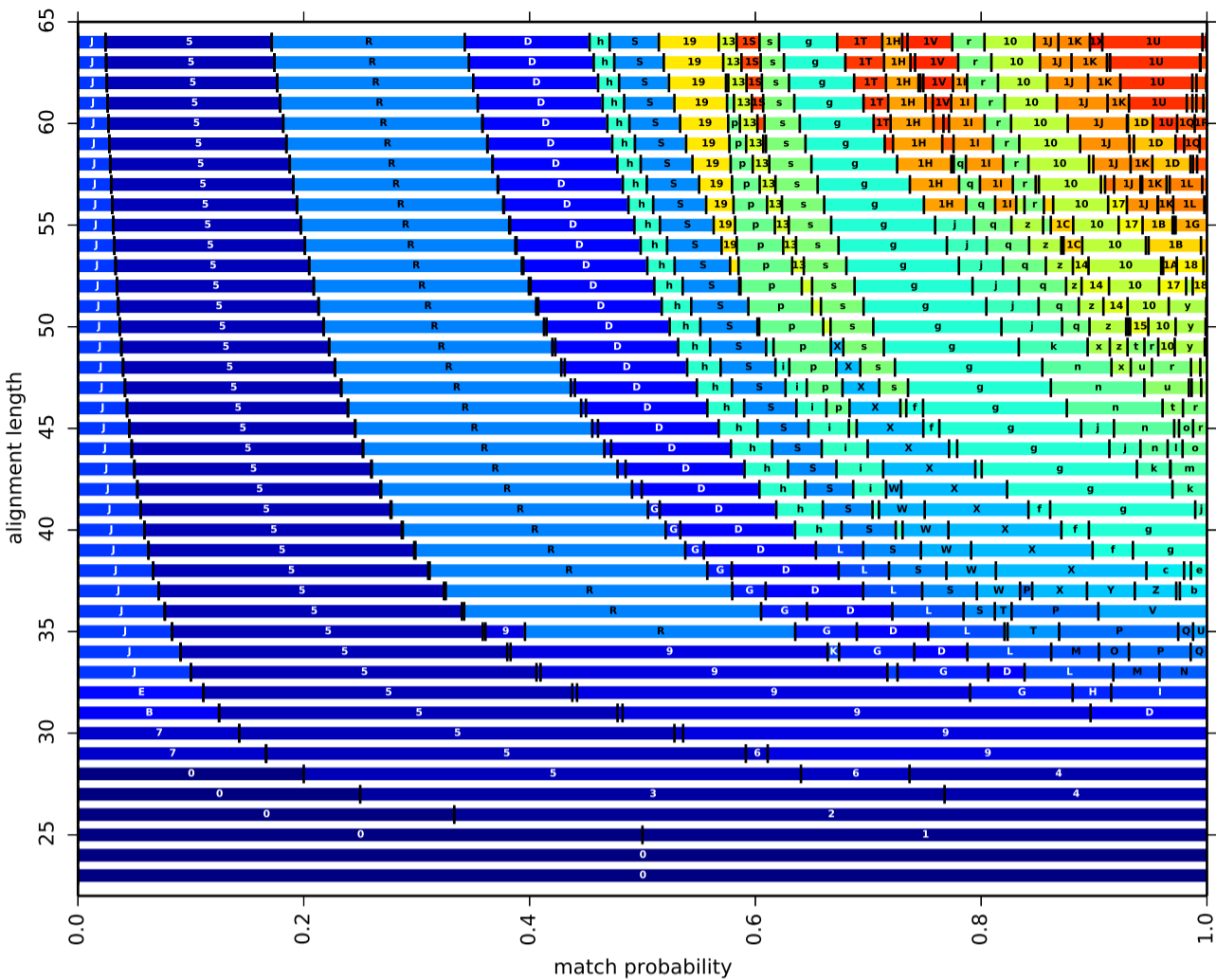


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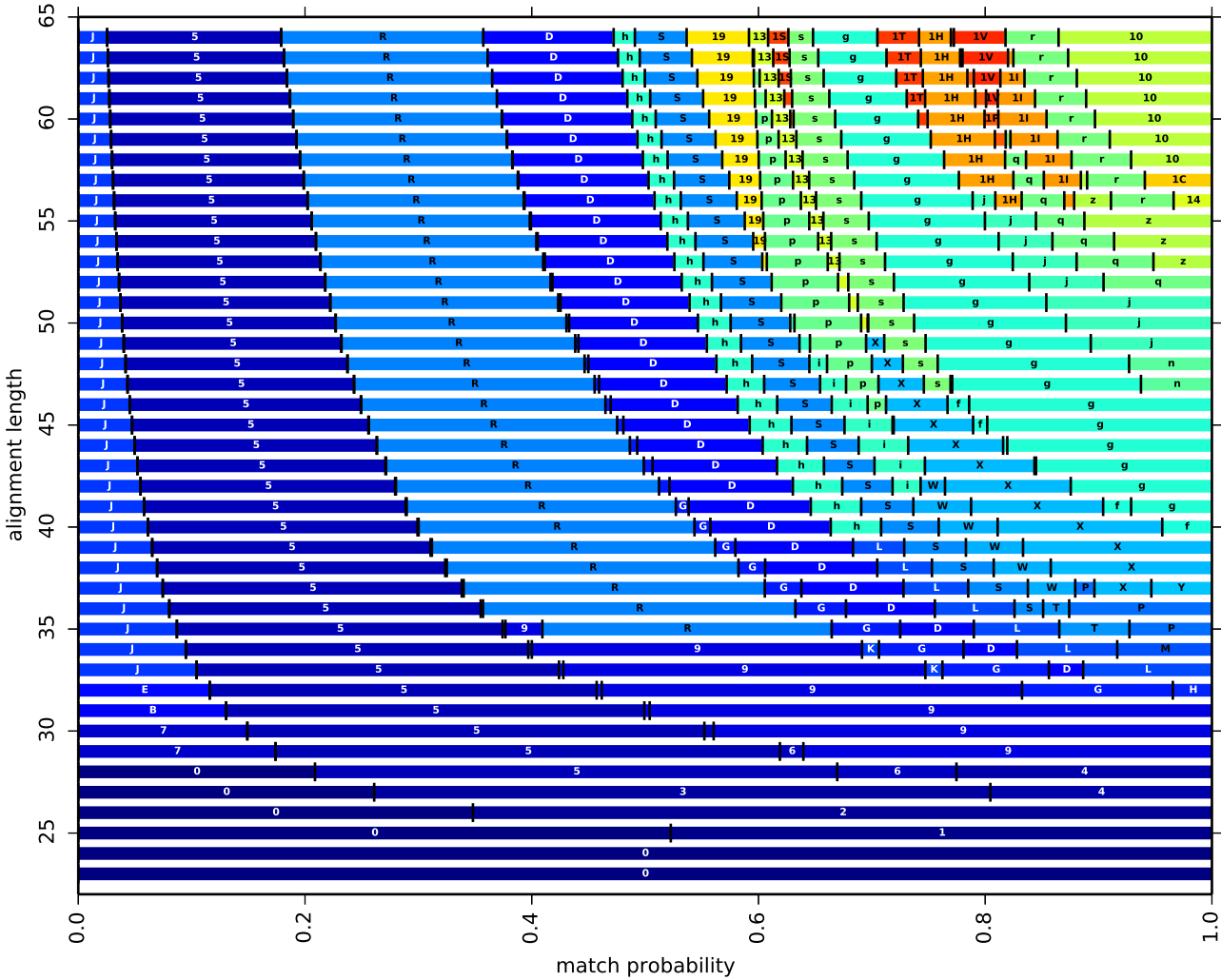
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Bernoulli (n:2,w:22)



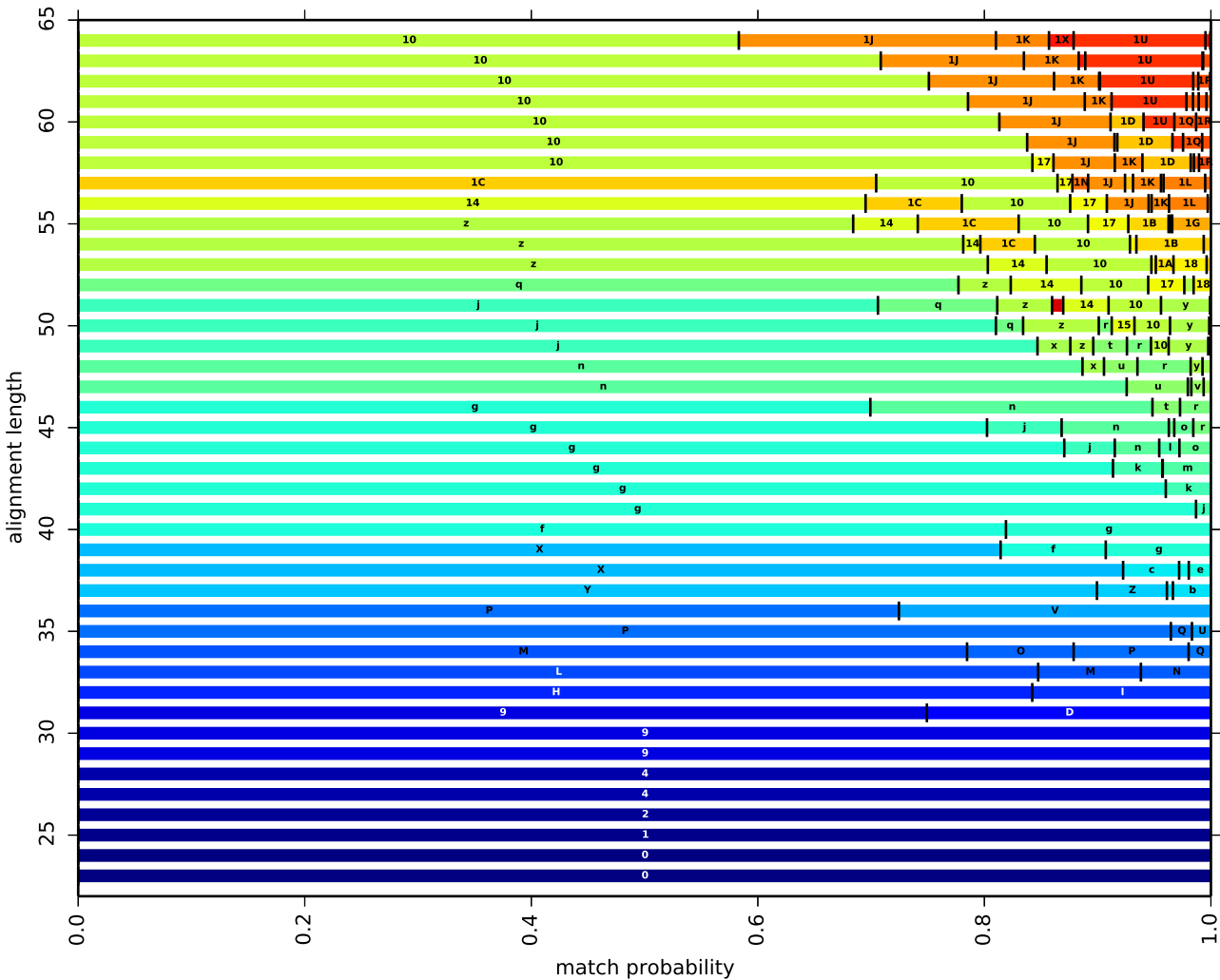
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5 = 11111101111111111111,111111111111011101111111
6 = 11111011111111111111,111111111101101110111111
7 = 11111111111111111111,1111111011111111111111
9 = 11110111011111111111,111111111111011011101111
B = 11111111111111111111,1111111101111111111111
D = 1111011101111101111111,111111111101011110110111
E = 11111111111111111111,1111111111011111111111
G = 11110111011111111111,111111111101011011101111
H = 1110111110111111101111,111111011111010110111111
I = 1111011011111111101111,11111111110101100111101111
J = 11111111111111111111,1111111111011111111111
K = 11111011101111111111,111111111110110111011111
L = 1111011101111111101111,111111101111011001111111
M = 1111101101111011111111,11111111011101111001010111
N = 1111011111110111011111,11111100111010111110110111
O = 1111011101111011111111,1111111011110100111010011111
P = 1111101110111101111111,1111111001111010011101011111
Q = 1111011011111011011111,11111101011001111011010011111
R = 1111011111101111111111,111111110111111011101111
S = 111101110110111111101111,11111101111101011001111111
T = 1111011011101111111111,11111111001111011010111111
U = 111101110111101110111111,11111110011101001110011111
V = 1111101111011110111111,1111111001011001011100111111
W = 1111011111101110111111,1111110111101100111101011111
X = 1111101111101111011111,1111110011010110010110111111
Y = 1111101111101111011111,11111101011001110010111011111
Z = 1111101111101111011111,111111010110011100101100111111
a = 1111101111101111011111,111111011001011001011001111111
b = 1111101111101111011111,111111011001011001011000111111
c = 111110111101110111011111,111111010100111010011010111111
e = 111110111110111011011111,111111010100111010011010011111
f = 111110111101110111011111,111111010100111010011010111111
g = 111110111101110111011111,111111010100110010011010111111
h = 1101101111111111011111,11111111010110011111011111
i = 1111011101111101111111,111111110110110011101011111
j = 111101111011101110111111,1111110101001100100110100111111
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l = 111110111101110111011111,11111101100101000101101001111111
m = 111110111101110111011111,1111111010001100010110010111111
n = 111110111101110111011111,1111111011000101100101001111111
o = 111110111101110111011111,11111101010011000001010011111111
p = 111101101111111011101111,1111110111001001011110111111
q = 111110110111110111011111,1111110111000110010011010010111111
r = 1111101110110111011101111,1111110010100110000101001010111111
s = 111110111101110111011111,1111110011101001101010110111111
t = 111110111101110111011111,1111110110001100001010110010111111
u = 1111101110111011011101111,1111110100101000110001011001111111
x = 111110111101110111011111,1111110110010100011001011010111111
y = 1111101110011101011011111,11111101100010101000110010010111111
z = 1111011101011011101101111,111111001100100110001010010111111
10 = 111110110111001110101111,11111101010001011000101001010111111
13 = 1111011111110111011111,1111110111010010101110011111
14 = 1111011101110101110101111,11111110100110000110001010111111
15 = 111101011110011010101111,1111110101001101000110010111111
17 = 1111011101010101101101111,11111100100110001010001010111111
18 = 111110110101010110011101111,11111101100100100010100010100111111
19 = 1111011111111011011111,1111011111011010011101101111
1A = 111110101101110110011101111,111111010100110001001000101000111111
1B = 111110110101100111001101111,11111101001001000101001010111111
1C = 111101110011101101011101111,1111110100101000101000110011011111
1D = 1111101101011101100011101111,11111101110000100010100001001110011111
1G = 1111101011100110011010101111,11111101100001100001010100001001011111
1H = 111110101110111011101111,11111101011001110001010011111111
1I = 111101110111010111011111,1111110101100100110001100010111111
1J = 1111101011100111010101111,1111110010100011000010100010011011111
1K = 11110111011100101100101101111,111111100100101000101000100011010011111
1L = 111110101110010011010101111,1111111001000101000010100001001011111
1Q = 111110101011101000111011111,11111110101100001000101000010010011111
1R = 111101101100100101011001111,111110101110010001000010000111011111
1S = 111110111011110111011111,1111110011110101001101011111
1T = 1111101101110111011101111,111111011100011001010010111111
1U = 11111100111001100110101111,1111110011010000010001010010001101011111
1V = 111101110111011101101111,11111101010010110010011000111011111
1X = 111111001101011100110101111,1111110011010000010001010010001101011111

\int_0^x Hit Integration (n:2,w:22)



- 0 = 11111111111111111111,11111011111111111111
- 1 = 11110111111111111111,11011111111011111111
- 2 = 11101111111111111111,111111111111101101111
- 3 = 11110111111111111111,111111111011111011111
- 4 = 11111110111101111111,1110111111111111010111
- 5 = 11111011111111111111,111111111101111011111
- 6 = 11110111111111111111,11111111110111011101111
- 7 = 11111111111111111111,111111101111111111111
- 9 = 11110111011111111111,11111111111011011101111
- B = 11111111111111111111,111111110111111111111
- D = 1111011101111101111111,111111111101011110110111
- E = 11111111111111111111,111111111011111111111
- G = 11110111011111111111,111111111101011011101111
- H = 1110111110111111110111,111111011111010110111111
- J = 11111111111111111111,111111111101111111111
- K = 11110111011111111111,11111111111011011101111
- L = 1111011101111111101111,11111101111011001111111
- M = 1111011011110111111111,11111110111100110010101111
- P = 111101110111101111011111,111111100111101001110101111
- R = 1111011111101111111111,11111111011111011101111
- S = 1111011101111111101111,11111110111110101100111111
- T = 1111011011101111111111,11111111001111011010101111
- W = 1111011111101110111111,1111110111011010011101011111
- X = 1111011111101110111111,1111110011010110010111011111
- Y = 1111011111101110111111,1111110101100111001011101111
- f = 1111011110111011101111,1111110100111010011010111111
- g = 1111011110111011101111,1111110100110010011010111111
- h = 1110110111111110111111,1111111101011001111011111
- i = 1111011011111110111111,111111101101011001110101111
- j = 111101111011101110111111,111111101010011001001100111111
- n = 111101111011101110111111,1111111011000101100101000111111
- p = 111101011111110111011111,11111101110010010111011111
- q = 111110110111010111011111,11111011100011001001101001011111
- r = 111101110111011110101111,1111111001010011000011001010111111
- s = 111101111011101110111111,11111100111010011010101011111
- z = 111101110110111011101111,11111110011001001100010100111111
- 10 = 11111011011001100111011111,111111010100010110001010011011111
- 13 = 1111011011110111011111,11111101110100101011110011111
- 14 = 1111011101110111101101111,1111111010011000011000100101011111
- 19 = 111101101111111011011111,111110111101100110110110111
- 1C = 111110111001110110101101111,111111100101000101000110011011111
- 1H = 111101101110111011101111,1111110101100111000101001011111
- 1I = 111101110111011101101111,11111101100100110001100010111111
- 1P = 111101101110111011101111,111111010011100101000110100111111
- 1S = 1111011101110111011111,11111100111010101001101011111
- 1T = 111101101110111011101111,1111110101110001100101001011111
- 1V = 111101110111011101101111,111111010100101100100110011101111

\int_x^1 Hit Integration (n:2,w:22)

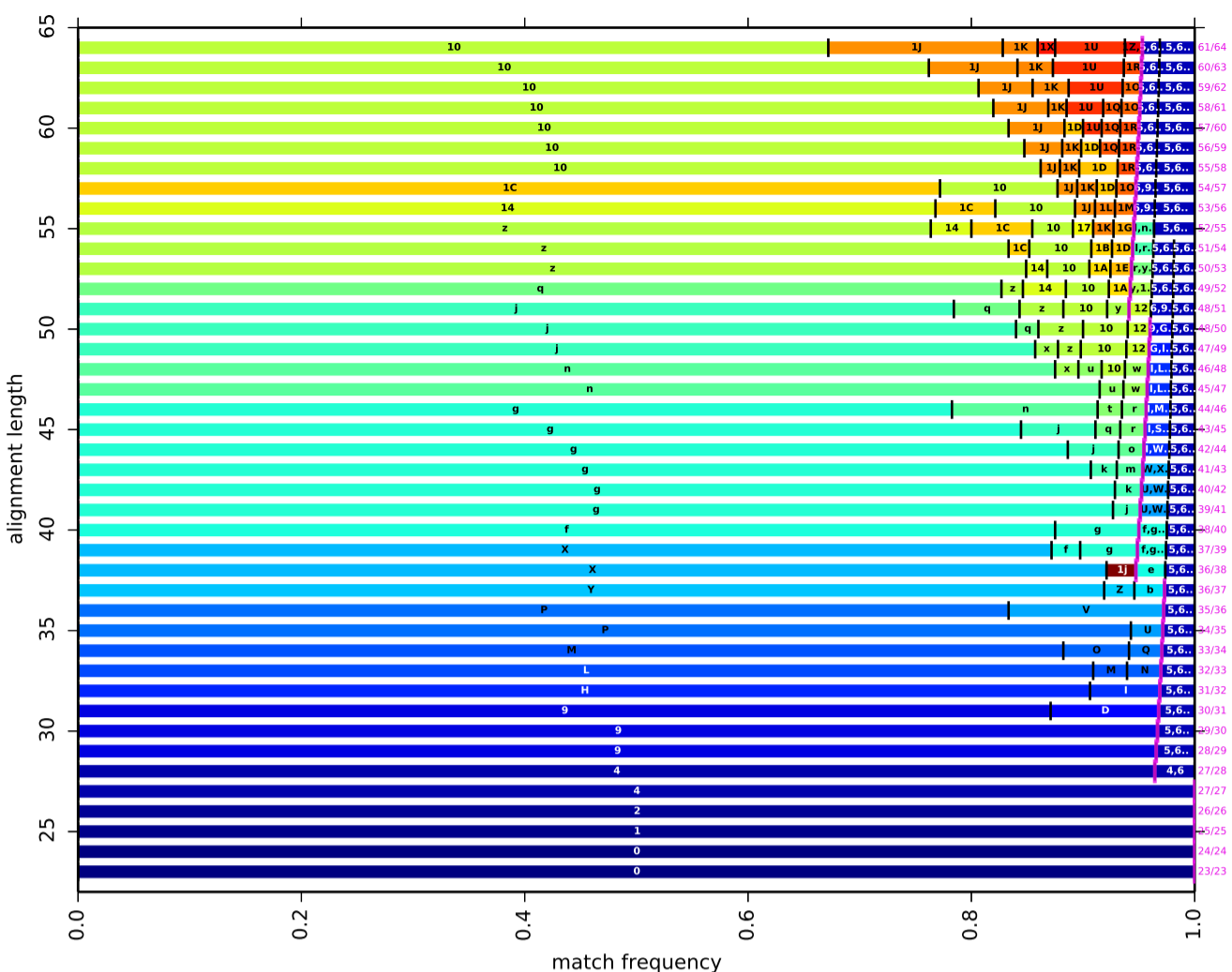


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0 = 11111111111111111111,11111011111111111111
1 = 11111011111111111111,11011111111101111111
2 = 11101111111111111111,11111111111110110111
4 = 11111101111011111111,1111011111111111011011
9 = 11110111011111111111,1111111111110110110111
D = 11110111011110111111,11111111110101111010111
H = 1110111110111111101111,11111101111101011011111
l = 1111011011111111011111,11111111110101100111101111
L = 1111011101111111101111,11111110111101011001111111
M = 1111101101111011111111,11111110111011110010101111
N = 1111011011111011101111,11111100111010111110101111
O = 1111011101111011111111,1111111011110100111010011111
P = 1111011101111011111111,1111111001111010011101011111
Q = 1111011011111011101111,11111101011100111101010011111
U = 1111101110111011101111,111111001110100111001101011111
V = 11110111011110111111,111111100101100101100111111
X = 11110111110111101111,1111110011010110010111011111
Y = 11110111110111101111,1111110101100111001011101111
Z = 11110111110111101111,111111010110011100101100111111
a = 11111011110111101111,111111011001011001011001111111
b = 11110111101111011111,111111010100101100101100111111
c = 11110111101111011111,111111010100111010011010111111
e = 11110111111011101111,1111110101001110100110100111111
f = 11110111101111011111,11111010100111010011010111111
g = 11110111101111011111,111111010100110010011010111111
j = 11110111101111011111,1111110101001100100110100111111
k = 11110111101111011111,1111111000101100101010011011111
l = 11110111101111011111,11111101100101000101101001111111
m = 11110111101111011111,111111010001100010110010111111
n = 11110111101111011111,111111011001011001010100111111
o = 11110111101111011111,111111010100110000010100111111
q = 11110111101111011111,1111110110001100100110100111111
r = 11101110111011101111,111111001010011000010101010111111
t = 11110101110111011111,1111110110001100001010100111111
u = 11110111101111011111,111111010010100011000101100111111
v = 11110111101111011111,111111011010001010001101000111111
x = 11110111101111011111,1111110100101000110010110111111
y = 1111011100111011101111,111111011010001010100010100111111
z = 111101110111011101111,1111110011001001100010100111111
10 = 111101101101110011101111,111111010100010110001010111111
14 = 111101101110101111011111,111111101001100010001010111111
15 = 11110101111001011011111,111110101001101000100010111111
17 = 1111011101010101101111,111111001001100010100010111111
18 = 111101101101010111001110111,11111101100100100010100111111
1A = 111101011011101110011101111,111111010100110001010001011111
1B = 111101101101010111001110111,11111101001001000110001011111
1C = 111101110011101011101111,111111010010100010100111111
1D = 111101101011101100011101111,111111011000010001010001011111
1G = 11110101110011001101011111,11111101100001100010101000111111
1J = 1111010110011101101011111,1111110010100011000101111111
1K = 111101110111001011001011111,111111001001010001010001011111
1L = 11110101110011001101101111,111111100100010100001010001011111
1N = 111101110110111011110011111,1111110110001001010001100100111111
1Q = 11110110111011000111011111,11111101011000010001010001100111111
1R = 11110110110010101110011111,11111010111001000100001000111011111
1U = 11111001101011100110101111,1111100110100000100010100100111111
1X = 111111001101011100110101111,11111100110100000100010100100111111

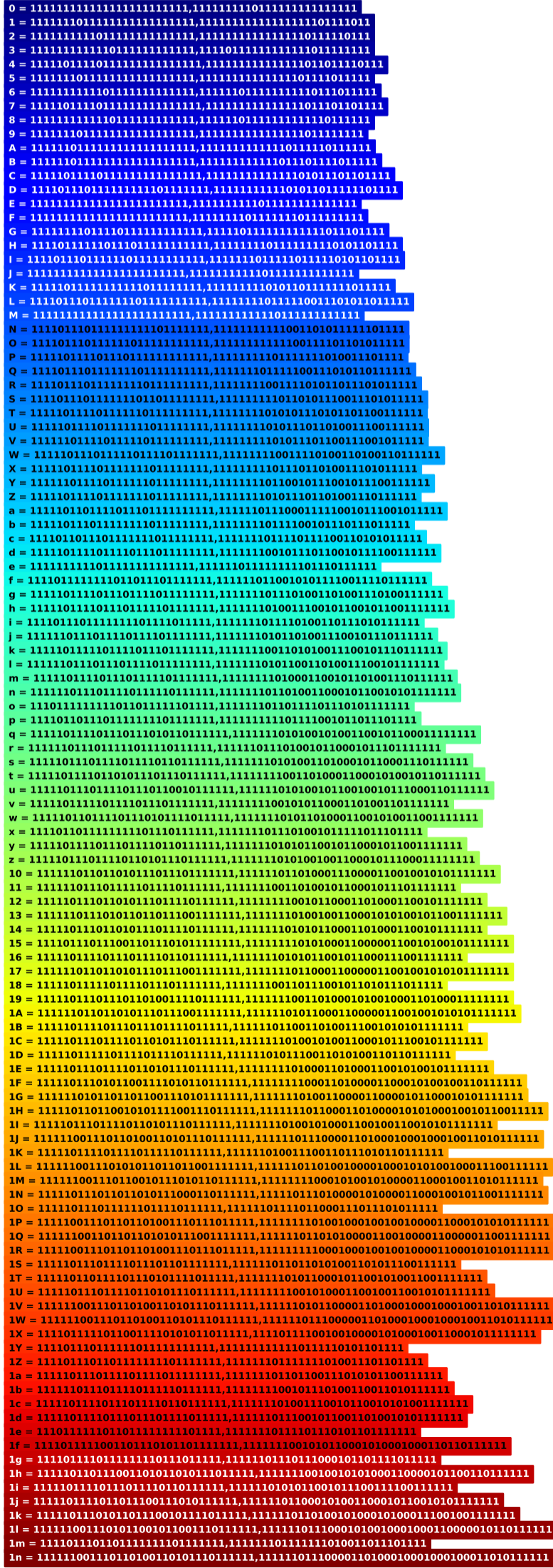
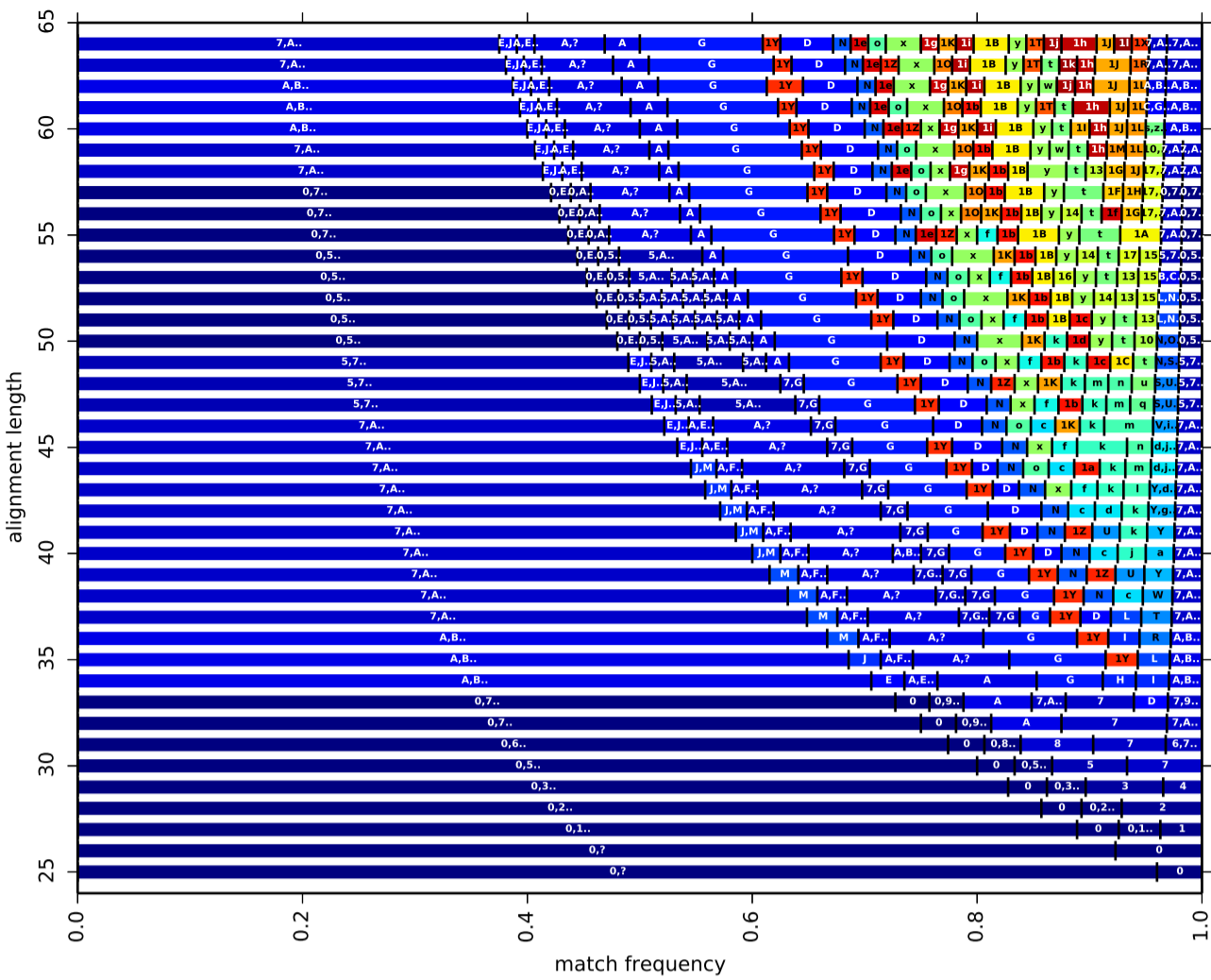
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$$\sum_x \text{Heaviside}(n;2,w:22)$$

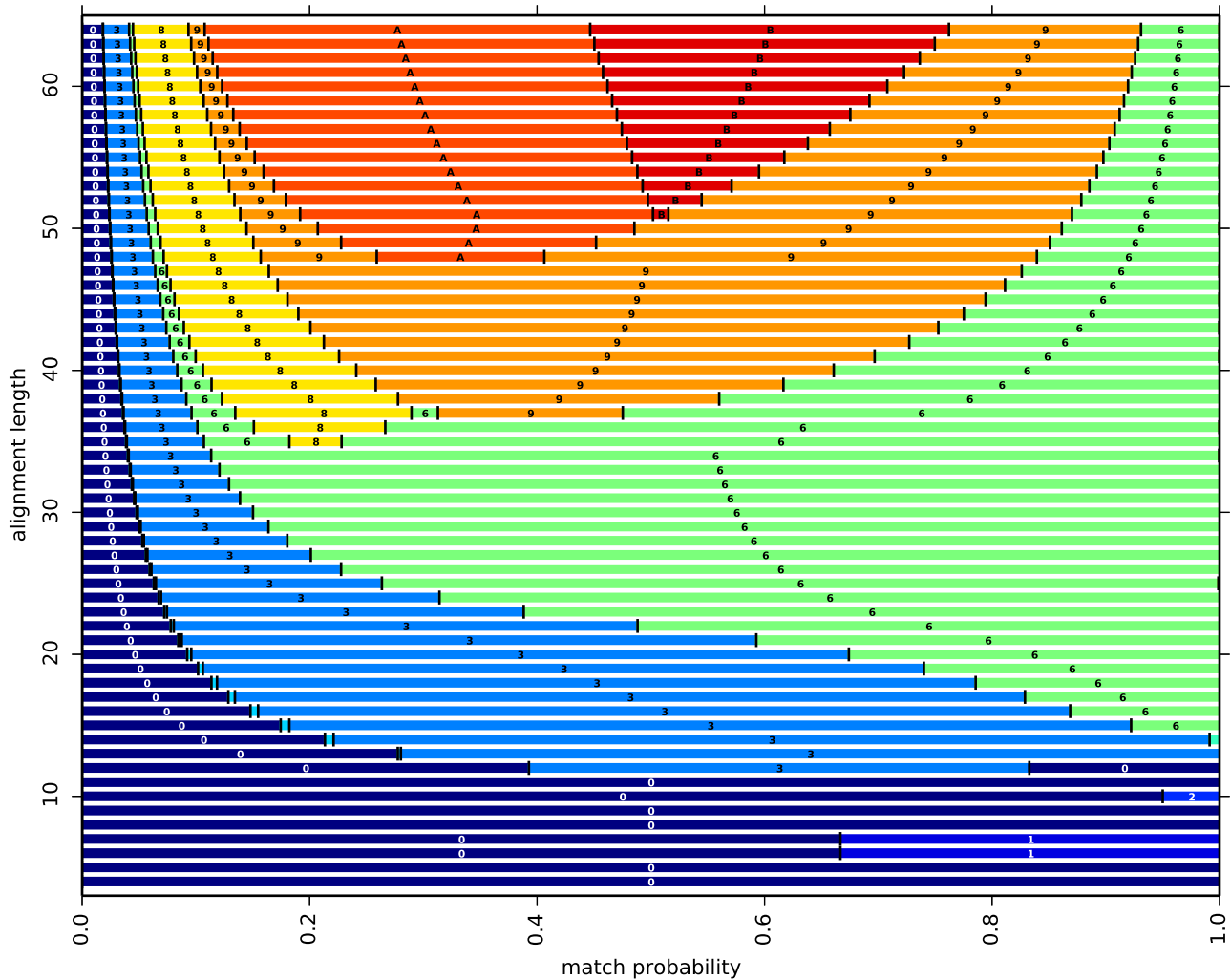


0	11111111111111111111,11111011111111111111
1	11110111111111111111,1101111111101111111111
2	11101111111111111111,1111111111111011011111
3	11110111111111111111,1111111101111101111111
4	11111101111011111111,1111011111111110110111
5	11111011111111111111,1111111111101111011111
6	11110111111111111111,111111111101110111011111
7	11111111111111111111,1111111101111111111111
8	11111011111111111111,1111111111111011111111
9	11110111011111111111,111111111110110111011111
A	11111111111111111111,111111110111110111111111
B	11111111111111111111,1111111101111111111111
C	11111011111111111111,111111111110110111011111
D	1111011101111011111111,111111111010111101101111
E	11111111111111111111,1111111110111111111111
F	11111111011111111111,11111110111111101110111111
G	11110111011111111111,11111111111010110111011111
H	1110111101111111101111,111111101111010101111111
I	1111011011111111101111,11111111101011001111011111
J	11111111111111111111,1111111110111111111111
K	11110111011111111111,11111111111011011101111111
L	1111011101111111101111,11111110111101011001111111
M	1111101101111011111111,1111111101110111100101011111
N	1111011011111011011111,1111110011101011111010111111
O	1111011011110111101111,1111111011110100111010011111
P	1111011011111011111111,1111111001111010011101011111
Q	1111011011110110111111,111111010111001110110100111111
R	1111011111101111111111,111111101111101110111111
S	1111011011011111110111,11111101111010110011111111
T	1111011011101111111111,1111111100111101101010111111
U	1111011101110111101111,11111110011101001110011010111111
V	1111011101111011111111,111111100101110010110011111111
W	1111011111101110111111,111111011101101001111010111111
X	1111011111101111011111,111111100110101100101110111111
Y	1111011111101111011111,11111110101100111001101101111111
Z	1111011111101111011111,11111110101100111001011001111111
a	1111011110111101111111,111111100101110010101001111111
b	1111011110111101111111,11111110110010110010110001111111
c	1111011110111101110111,11111110101001110100110101111111
d	1111011101110111011111,11111110100101110010110101111111
e	1111011111101110111111,1111111010100111010011010011111111
f	1111011110111101110111,11111110100111010011010111111111
g	1111011110111101101111,11111110101001100100110101111111
h	1110110111111101111111,11111111010100111101111111
i	1111011101111101111111,111111101101010011110101111111
j	1111011101110111011111,1111111010100110010011010011111111
k	1111011110111011101111,1111111000101100101010011011111111
l	1111011110111011011111,1111111011001010001011010011111111
m	1111011110111011011111,1111111010001100010110010111111111
n	1111011110111011011111,1111111011000101100101010011111111
o	1111011110111011011111,11111110101001100000101001111111111
p	1111011011111101101111,111111101110010010111101111111
q	1111101101111011101111,1111111011000110010011010010111111
r	111101110111011101111,111111100101001100010100101011111111
s	1111101110111011101111,11111110011101001101010101111111
t	1111101011101101110111,111111101100011000010101100101111111
u	1111011110111011010111,11111110100101000110001010011111111
v	1111011101011011011111,111111101100010100011010001111111111
w	1111001110111011010111,111111110000110001010100101101111111
x	1111011110111011011111,111111101100101000110010110101111111
y	11110111001110101101111,11111101101000101010001100100101111111
z	1111011101011011011111,111111100110010011000101001011111111
10	111110110111001110101111,1111110101000110001001010101111111
11	11110111011101101010111,1111111010001100001001010101111111
12	1111101110111011010011,1101101110001100001010001001011111111
13	1111011011111011101111,111111011101001010111001111111111
14	11110110111010111010111,111111101001100001100010010111111111
15	11110101111001011010111,1111110101001101000110001010111111111
16	1111011011111101011111,1111110101110010110110101111111111
17	1111011101011010110111,1111110010011000101000101001011111111
18	1111011011010101110011,111111011001001000110000101010011111111
19	1111011101111110101111,111111011110110100111011010111111111
1A	111101010111010100110111,111111010011000100011010001111111111
1B	1111011011010101110011,11111101001001000110000101001111111111
1C	1111011100111010101111,11111101001010001010001100101011111111
1D	111101101110110001110111,11111101100001000101000100101100111111
1E	11110110110101010111001,111111101000010001100001001010101111111
1F	1111011101101010101001,1111110011001000101000101000101011111111
1G	111101011100110010101011,11111101100001100001010100001100101111111
1H	1111011011011011101111,11111101011001110001010011011111111111
1I	1111011101110101110111,1111110101100110001100011000101111111111
1J	111101011011001110110111,1111111001010001100001010001001101111111
1K	11110111011100101100101,11111100100101000101000101000110100111111
1L	11110101110011001010101,1111111001000101000010100001100101111111
1M	11110110011101001011011,11111101100001010000100010001010011111111
1N	1111011101101011100111,111111100010010100001010001010111111111
1O	1111100111010101010011,111111001100010010001000011000101010111111
1P	1111101110111011101111,111111010011100101000101000111111111111
1Q	111101101011101100011011,111111010110000100010100001001001100111111
1R	1111011011001010111001,11111101011100100010000100001110101111111
1S	1111011101111011101111,1111110011110101010011010111111111111
1T	1111011011101110111011,111111010111000110010110010111111111111
1U	11111001101011100101011,1111110011010000100010100010100011111111
1V	1111011101110101110101,111111010100101100100110001101011111111
1W	1111011101101011101011,111111010110010100101001100111111111111
1X	11111001101011100101011,1111110011010000100010100010101011111111
1Y	11111001110101101001011,111111001110001000010100000010110011111111
1Z	1110111010011101101001011,11111101100110000001100000100101011011111
1a	1111011111011011011111,11111101100101011100111010111111111111
1b	1111011110110101011111,111111001000110100011001010111111111111
1c	1111011101111010111111,111111010101010110111001111111111111111
1d	1111011101110111011111,11111101100111001011101011111111111111
1e	1111011101111011101111,111111001110101010011001010111111111111
1f	1111011101110111011111,111111011010011101001101011111111111111
1g	1111011101111110111111,11111111101011001110101111111111111111
1h	11110110111011100111011,11111110010001100010100010110010111111111
1i	1111011011111011010111,111111011101001011001101010111111111111
1j	1111011110111011101111,1111110011010011101001101011111111111111

Dirac (n:2,w:24)



Bernoulli (n:3,w:3)



0 = 111,1011,1101
1 = 111,1011,110001

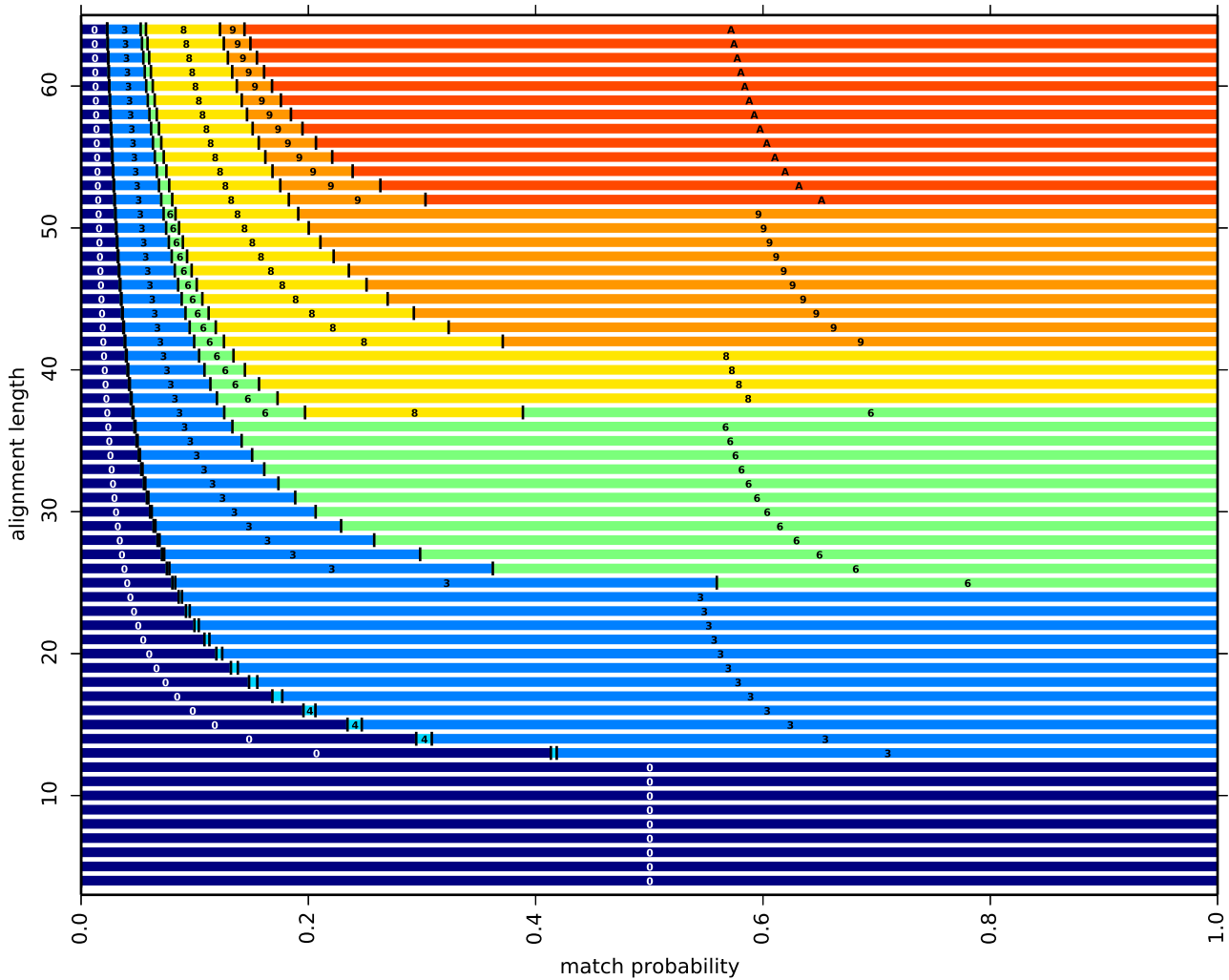
2 = 111,1011,110000001
3 = 111,10011,100101

6 = 1011,11001,1010001
8 = 1011,110001,10010001

9 = 1011,11000001,1000010001
A = 100011,101000001,10000001001

B = 100011,100000101,10010000001

$$\int_0^x \text{Hit Integration (n:3,w:3)}$$



0 = 111,1011,1101
 3 = 111,10011,100101

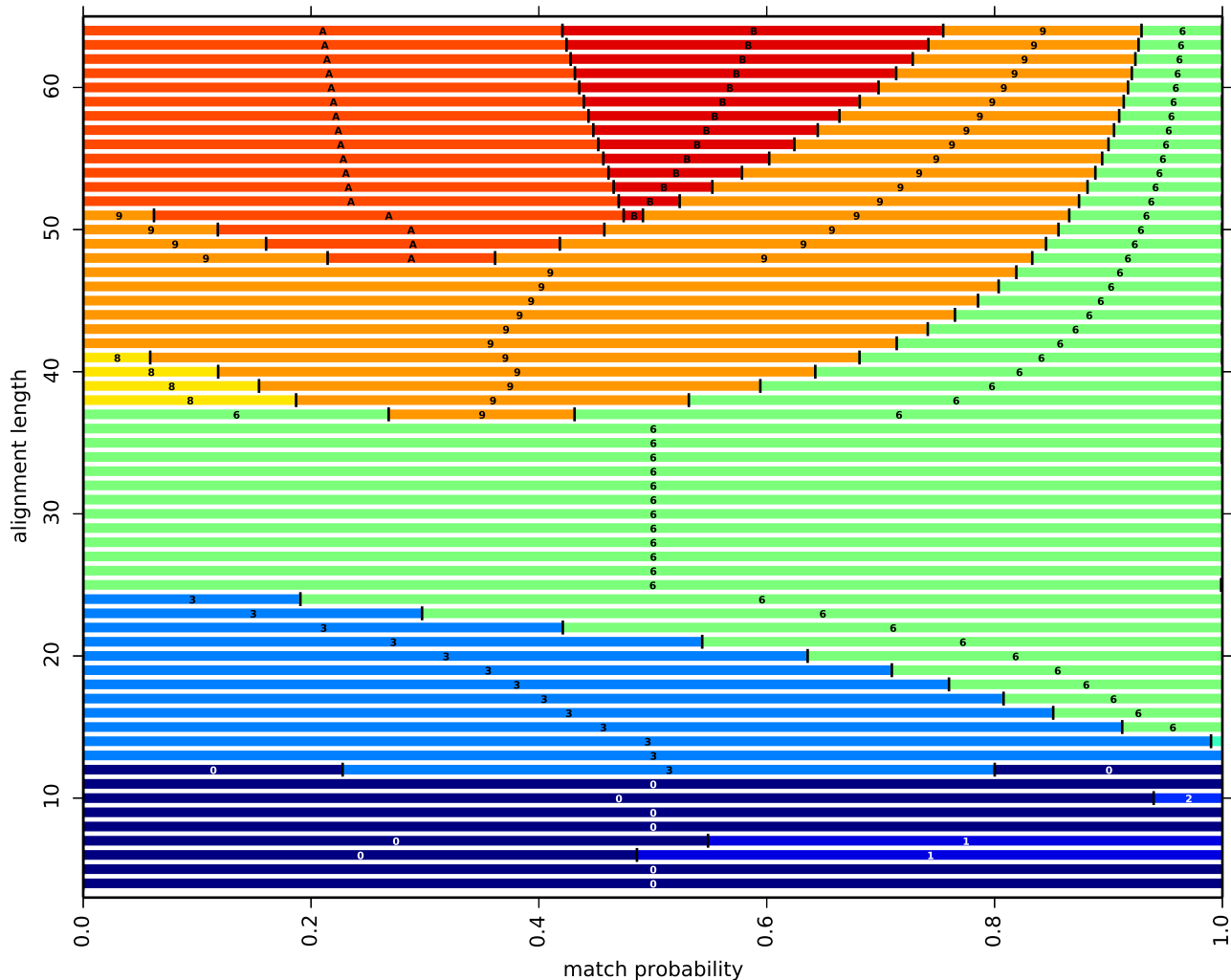
4 = 111,1011,10011
 6 = 1011,11001,1010001

8 = 1011,1100001,10010001

9 = 1011,110000001,10000010001

A = 100011,101000001,10000001001

\int_x^1 Hit Integration (n:3,w:3)



0 = 111,1011,1101
1 = 111,1011,110001

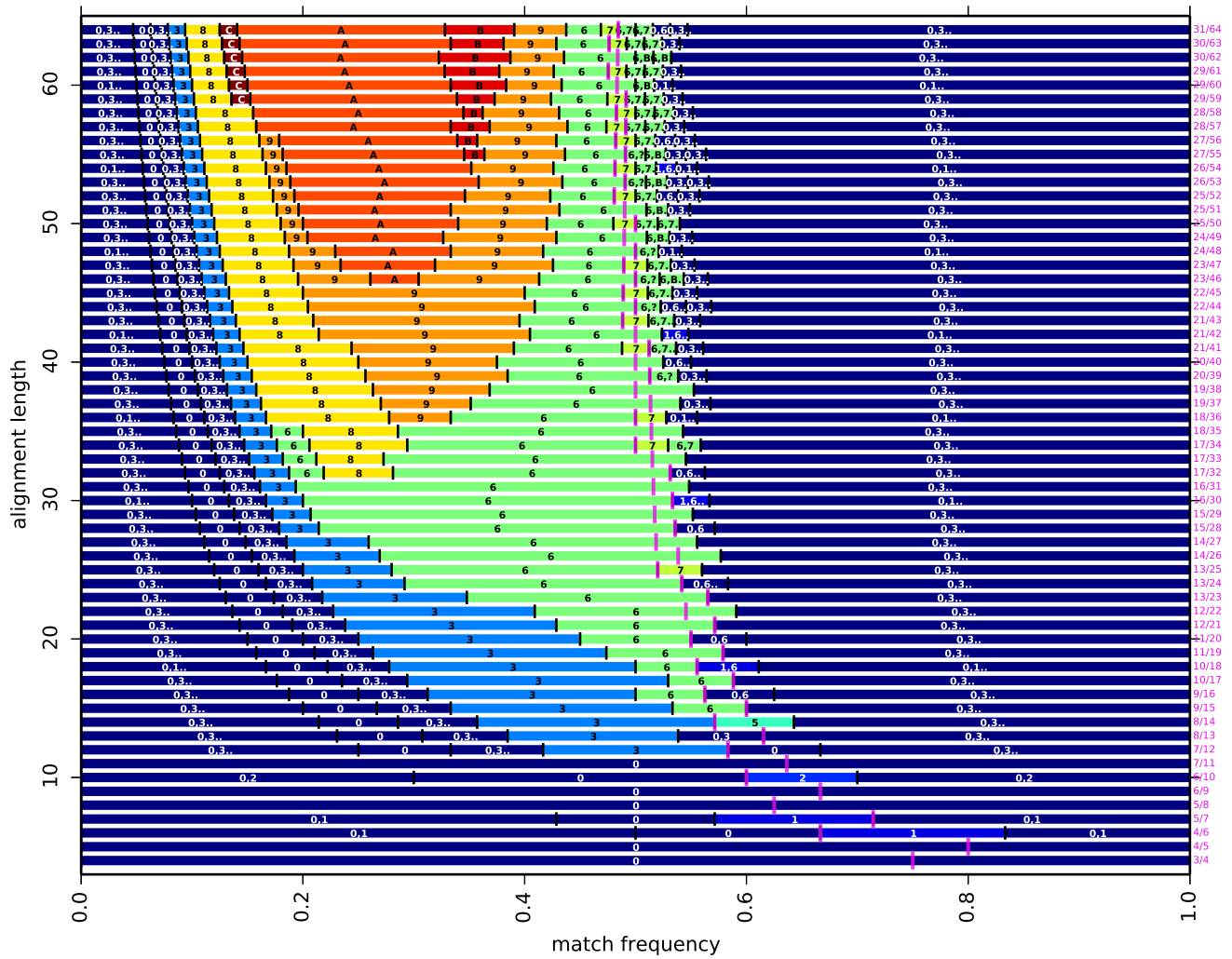
2 = 111,1011,1100000001
3 = 111,10011,100101

6 = 1011,11001,1010001
8 = 1011,110001,10010001

9 = 1011,11000001,1000010001
A = 100011,101000001,10000001001

B = 100011,100000101,10010000001

Dirac (n:3,w:3)



0 = 111,1011,1101
 1 = 111,1011,110001
 2 = 111,1011,110000001

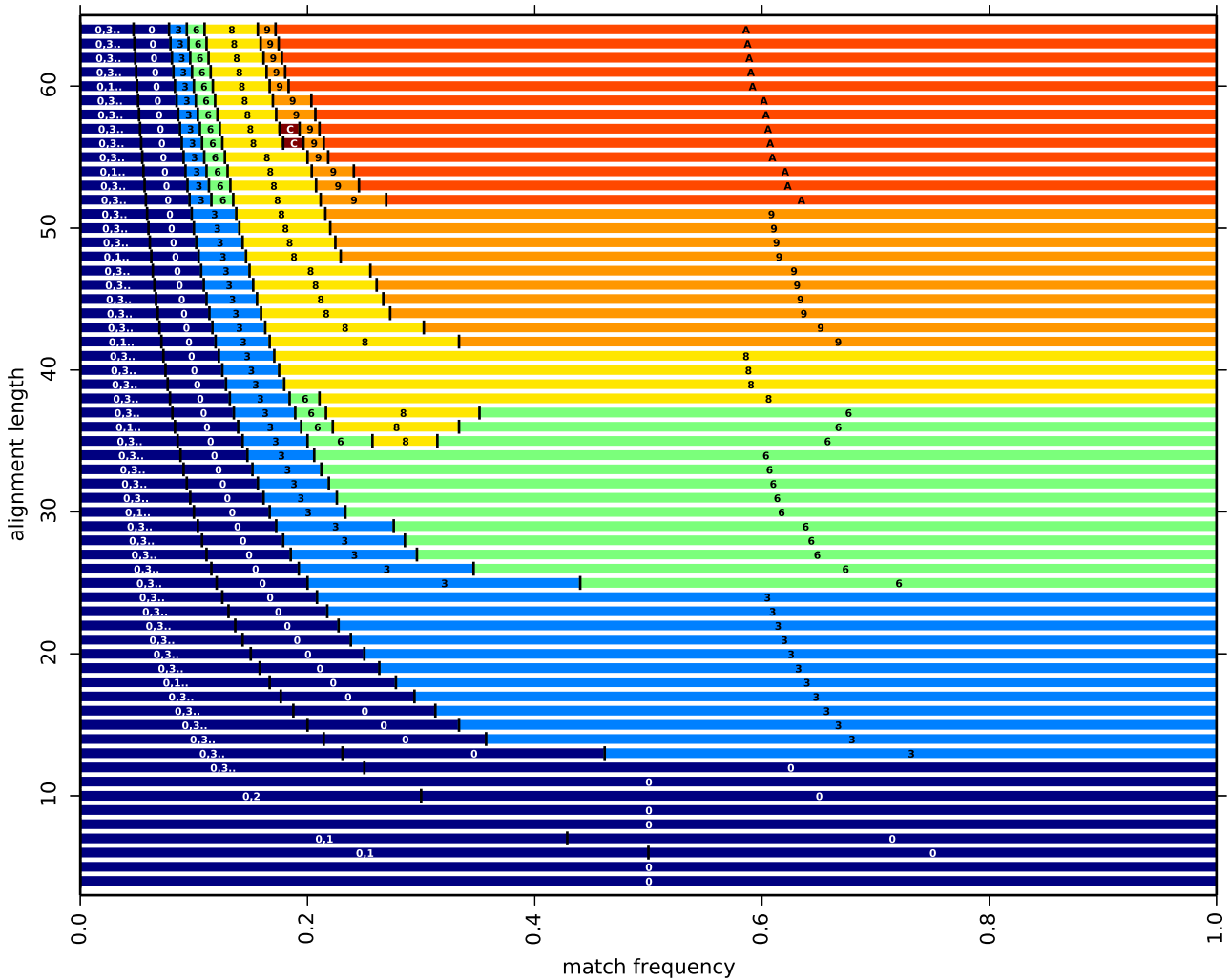
3 = 111,10011,100101
 4 = 111,1011,10011
 5 = 111,1011,1100000000001

6 = 1011,11001,1010001
 7 = 1011,10011,1000101
 8 = 1011,11001,10010001

9 = 1011,11000001,1000010001
 A = 100011,101000001,1000001001

B = 100011,100000101,10010000001
 C = 10011,1010001,100000101

$$\sum_0^x \text{Heaviside}(n:3,w:3)$$



0 = 111,1011,1101
 1 = 111,1011,110001
 2 = 111,1011,1100000001

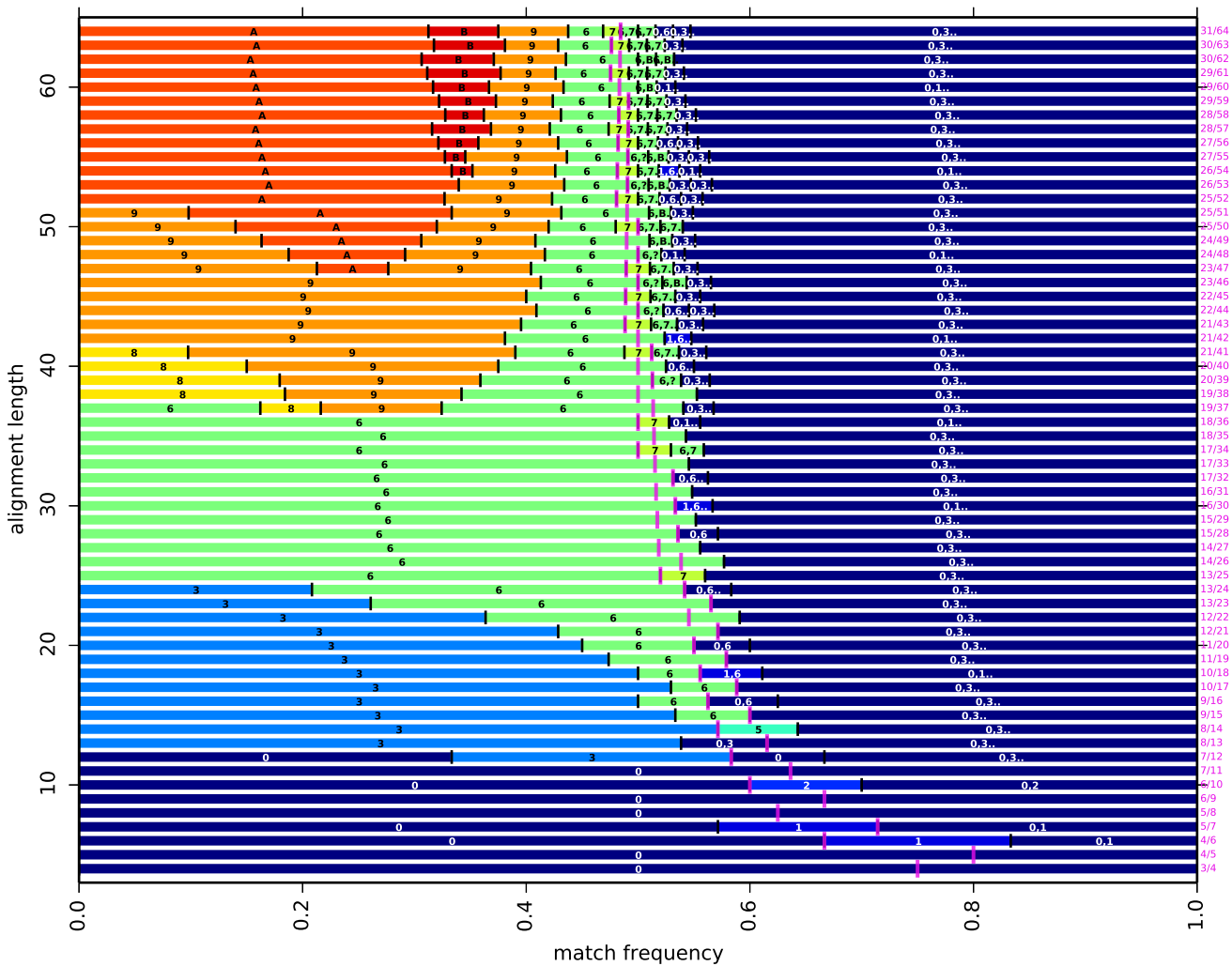
3 = 111,10011,100101
 4 = 111,1011,10011
 5 = 111,1011,11000000000001

6 = 1011,11001,1010001
 7 = 1011,10011,1000101
 8 = 1011,110001,10010001

9 = 1011,11000001,1000010001
 A = 100011,101000001,10000001001

B = 100011,100000101,10010000001
 C = 10011,10100001,100000101

$$\sum_x \text{Heaviside}(n:3, w:3)$$



0 = 111,1011,1101
 1 = 111,1011,110001
 2 = 111,1011,1100000001

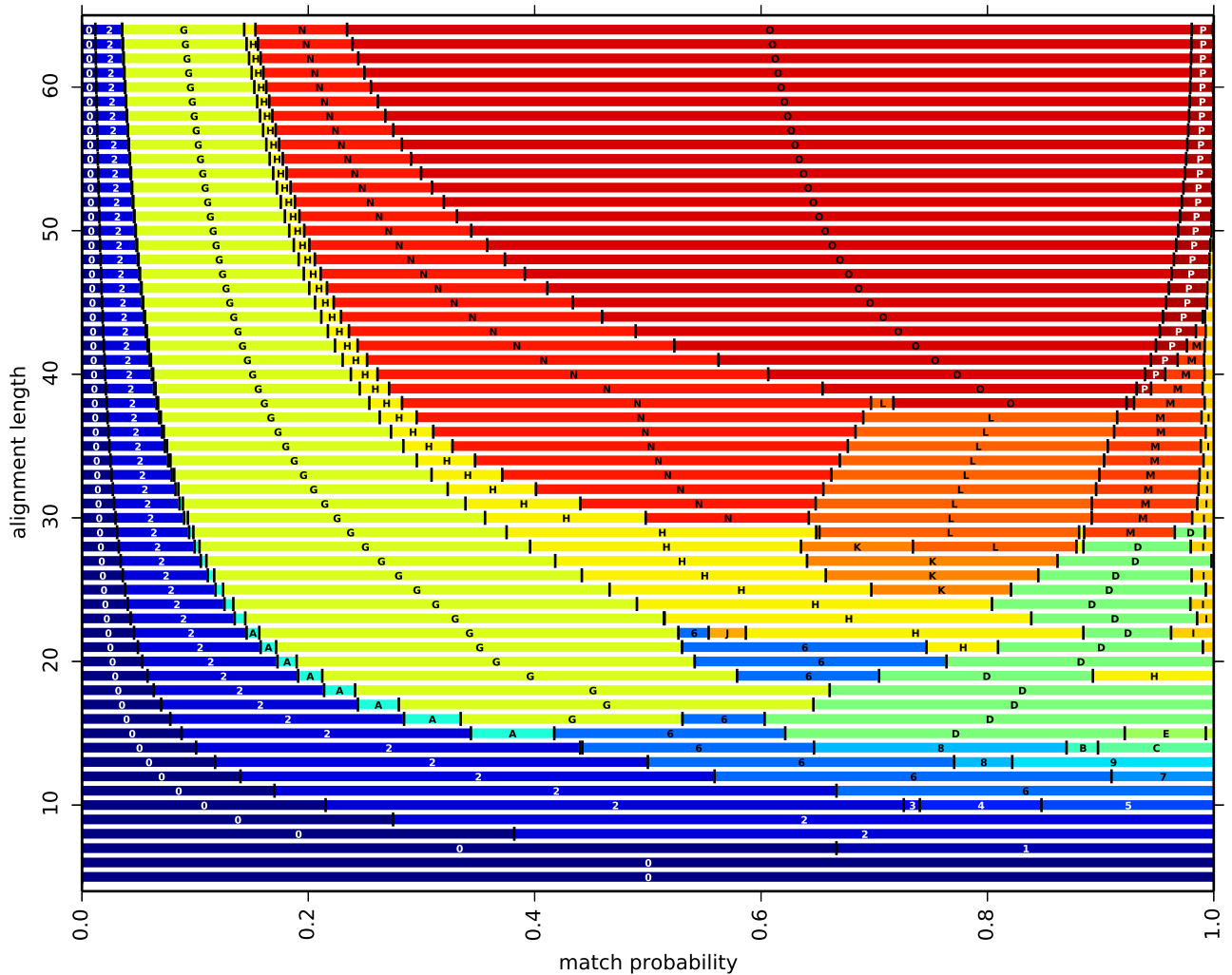
3 = 111,10011,100101
 4 = 111,1011,10011
 5 = 111,1011,11000000000001

6 = 1011,11001,1010001
 7 = 1011,10011,1000101
 8 = 1011,110001,10010001

9 = 1011,11000001,1000010001
 A = 100011,101000001,10000001001

B = 100011,100000101,10010000001
 C = 10011,10100001,100000101

Bernoulli (n:3,w:4)



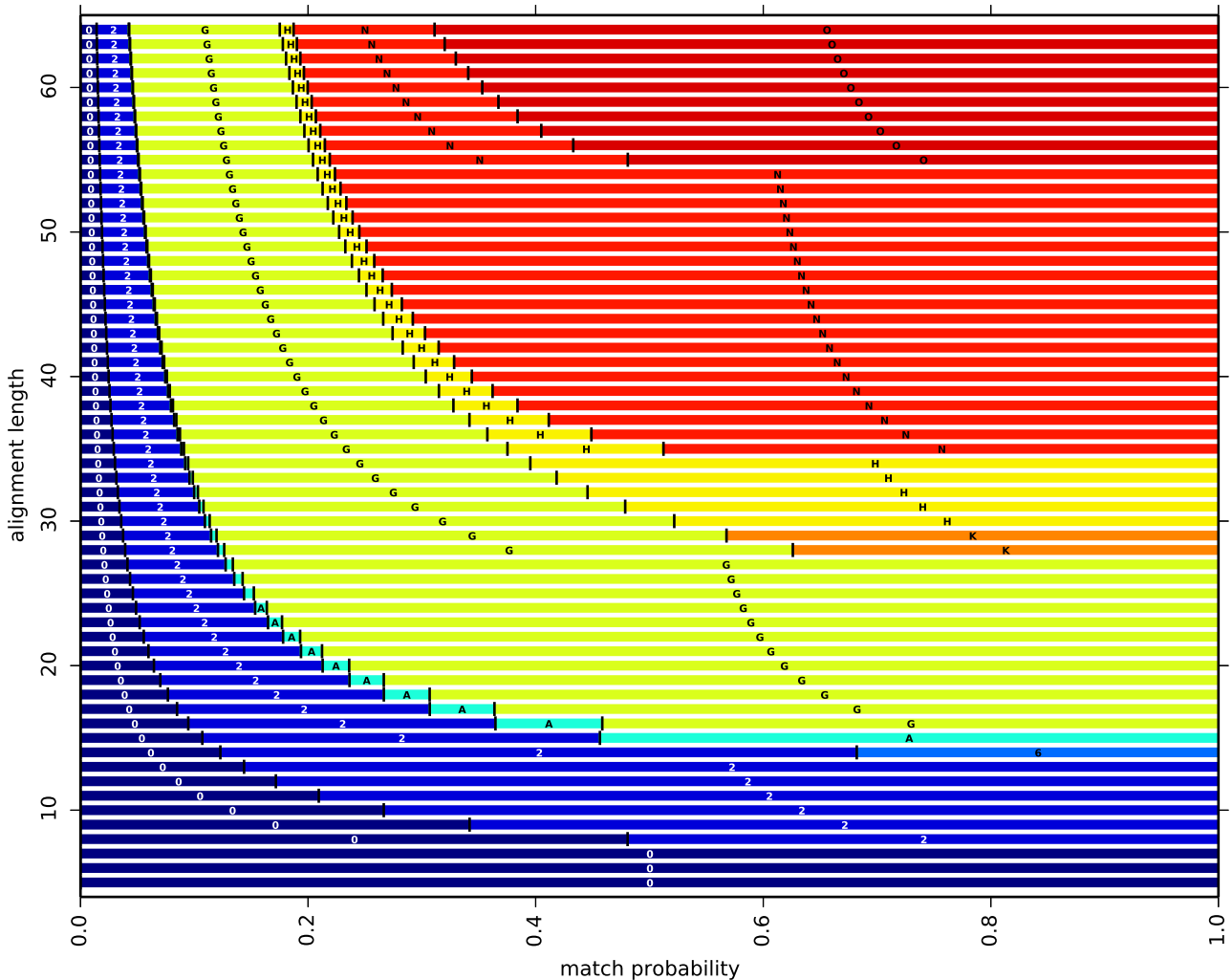
0 = 1111,10111,11011
 1 = 1111,11011,1010101
 2 = 1111,11011,1100011
 3 = 1111,110011,1001011
 4 = 11011,101011,11000011
 5 = 11011,1010101,11000011
 6 = 10111,1100011,11010001

7 = 11011,1100011,1100000011
 8 = 10111,1100101,110000011
 9 = 11011,11000011,11000000011
 A = 10111,101101,1100011
 B = 101011,1100101,1100000011
 C = 1010011,1100101,1100000011

D = 10111,101101,10100011
 E = 10111,11001,1001011
 G = 10111,1101001,11000101
 H = 10111,10010101,11000011
 I = 11011,101011,10000111
 J = 10111,1101001,10100011

K = 11011,1000111,10010101
 L = 11011,10100011,10100000011
 M = 10111,1010011,100100011
 N = 10111,10100011,1001000011
 O = 101011,1001000011,100010000011
 P = 10111,100100011,1001010001

\int_0^x Hit Integration (n:3,w:4)



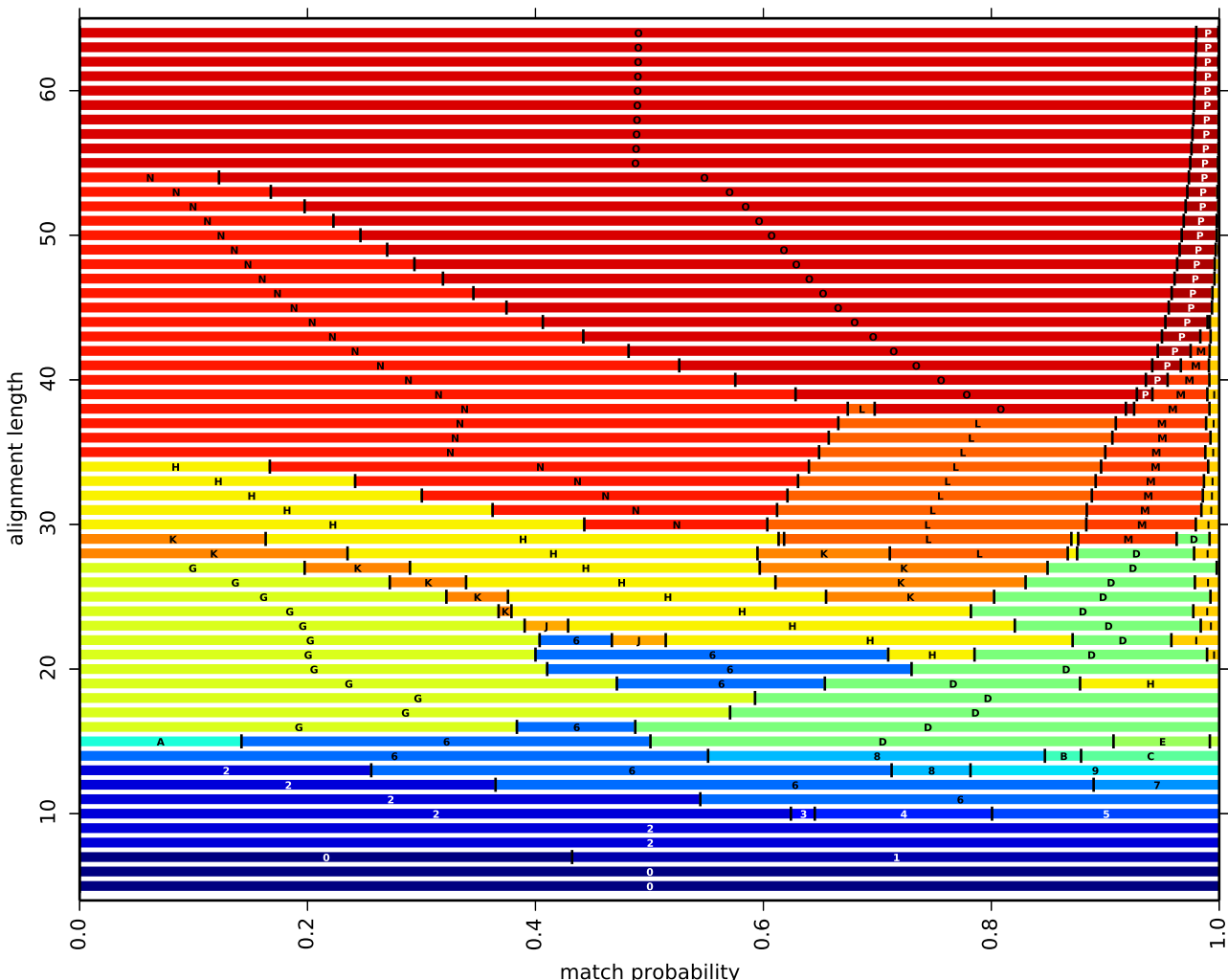
0 = 1111,10111,11011
 2 = 1111,11011,1100011
 6 = 10111,1100011,11010001

A = 10111,101101,1100011
 G = 10111,1101001,11000101

H = 11011,10010101,11000011
 K = 11011,1000111,10010101

N = 10111,10100011,1001000011
 O = 101011,1001000011,100010000011

\int_x^1 Hit Integration (n:3,w:4)



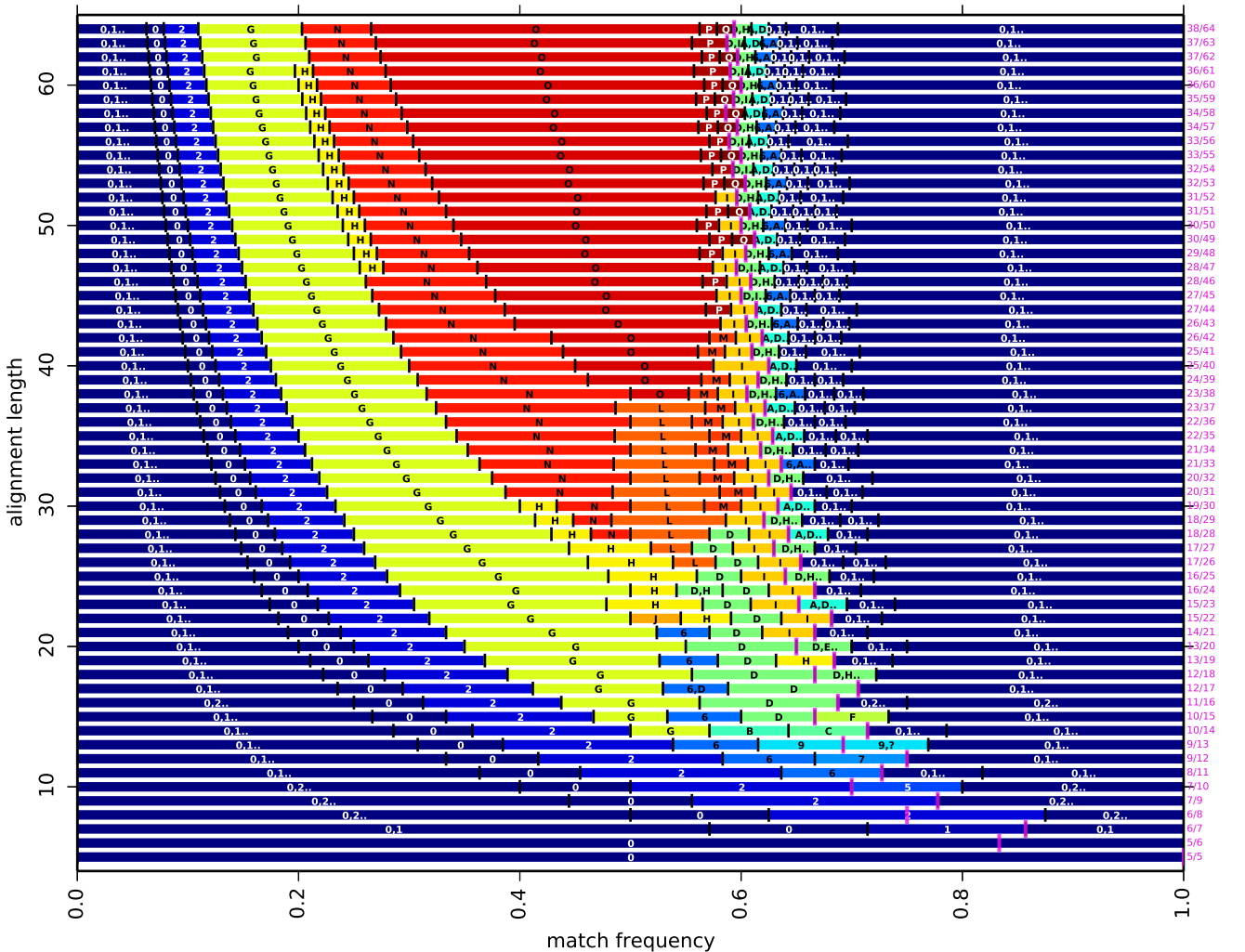
0 = 1111,10111,11011
 1 = 1111,11011,1010101
 2 = 1111,11011,1100011
 3 = 1111,110011,1001011
 4 = 11011,101011,11000011
 5 = 11011,1010101,11000011
 6 = 10111,1100011,11010001

7 = 11011,1100011,1100000011
 8 = 10111,1100101,110000011
 9 = 11011,11000011,11000000011
 A = 10111,101101,1100011
 B = 101011,1100101,1100000011
 C = 1010011,1100101,1100000011

D = 10111,101101,10100011
 E = 10111,111001,1001011
 G = 10111,1101001,11000101
 H = 10111,10010101,11000011
 I = 11011,101011,10000111
 J = 10111,1101001,10100011

K = 11011,1000111,10010101
 L = 11011,10100011,10100000011
 M = 10111,1010011,100100011
 N = 10111,10100011,1001000011
 O = 101011,1001000011,100010000011
 P = 10111,100100011,1001010001

Dirac (n:3,w:4)



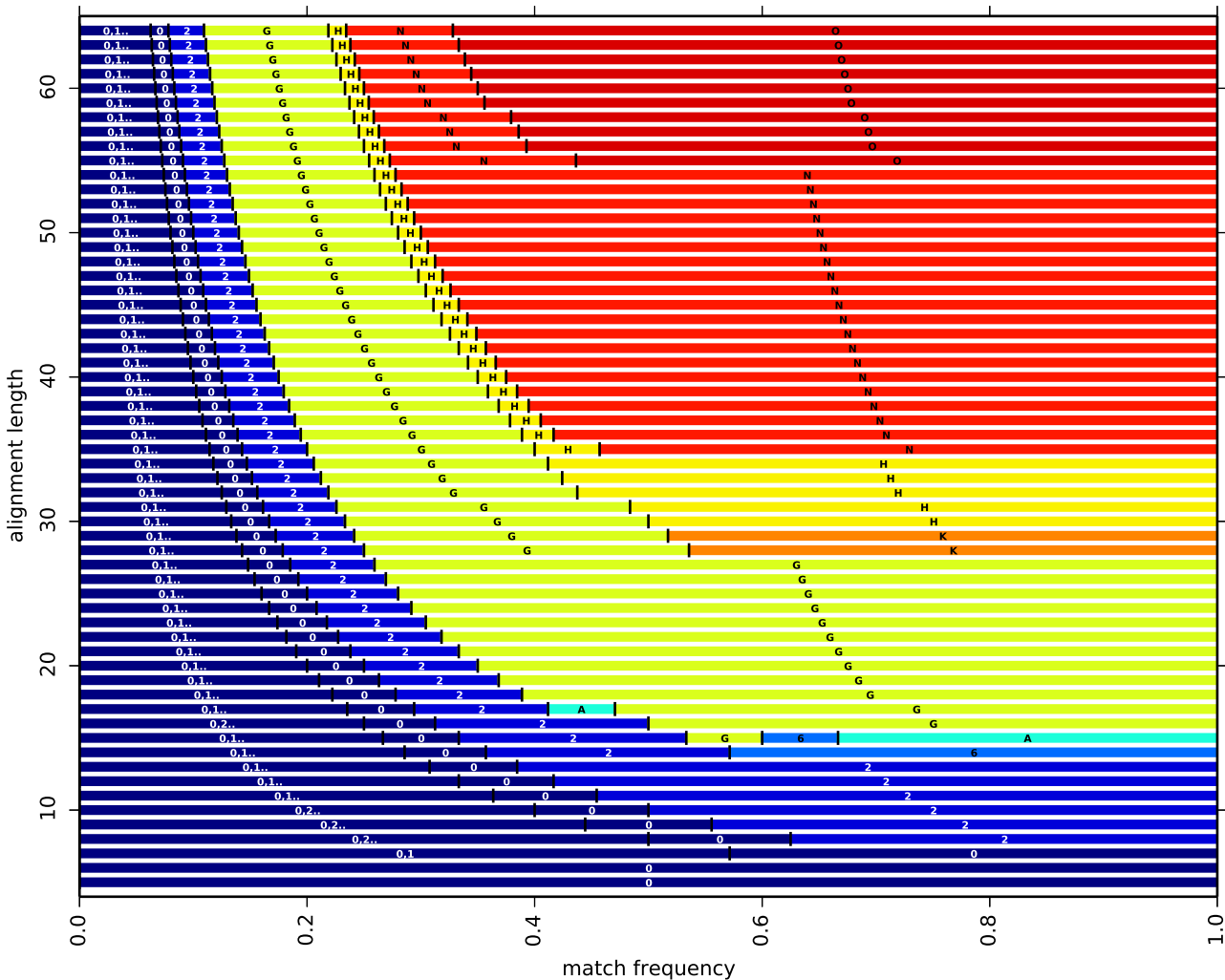
0 = 1111,10111,11011
 1 = 1111,11011,1010101
 2 = 1111,11011,1100011
 3 = 1111,110011,1001011
 4 = 11011,101011,11000011
 5 = 11011,1010101,11000011
 6 = 10111,1100011,11010001

7 = 11011,1100011,1100000011
 8 = 10111,1100101,110000011
 9 = 11011,11000011,1100000011
 A = 10111,101101,1100011
 B = 101011,1100101,1100000011
 C = 1010011,1100101,1100000011
 D = 10111,101101,10100011

E = 10111,111001,1001011
 F = 11011,110000011,110000000011
 G = 10111,1101001,11000101
 H = 11011,10010101,11000011
 I = 11011,101011,1000011
 J = 10111,1101001,10100011
 K = 11011,1000111,10010101

L = 11011,10100011,10100000011
 M = 10111,1010011,100100011
 N = 10111,10100011,1001000011
 O = 101011,1001000011,100010000011
 P = 10111,100100011,1001010001
 Q = 110011,10010101,1011000001

$$\sum_0^x \text{Heaviside}(n:3,w:4)$$



match frequency

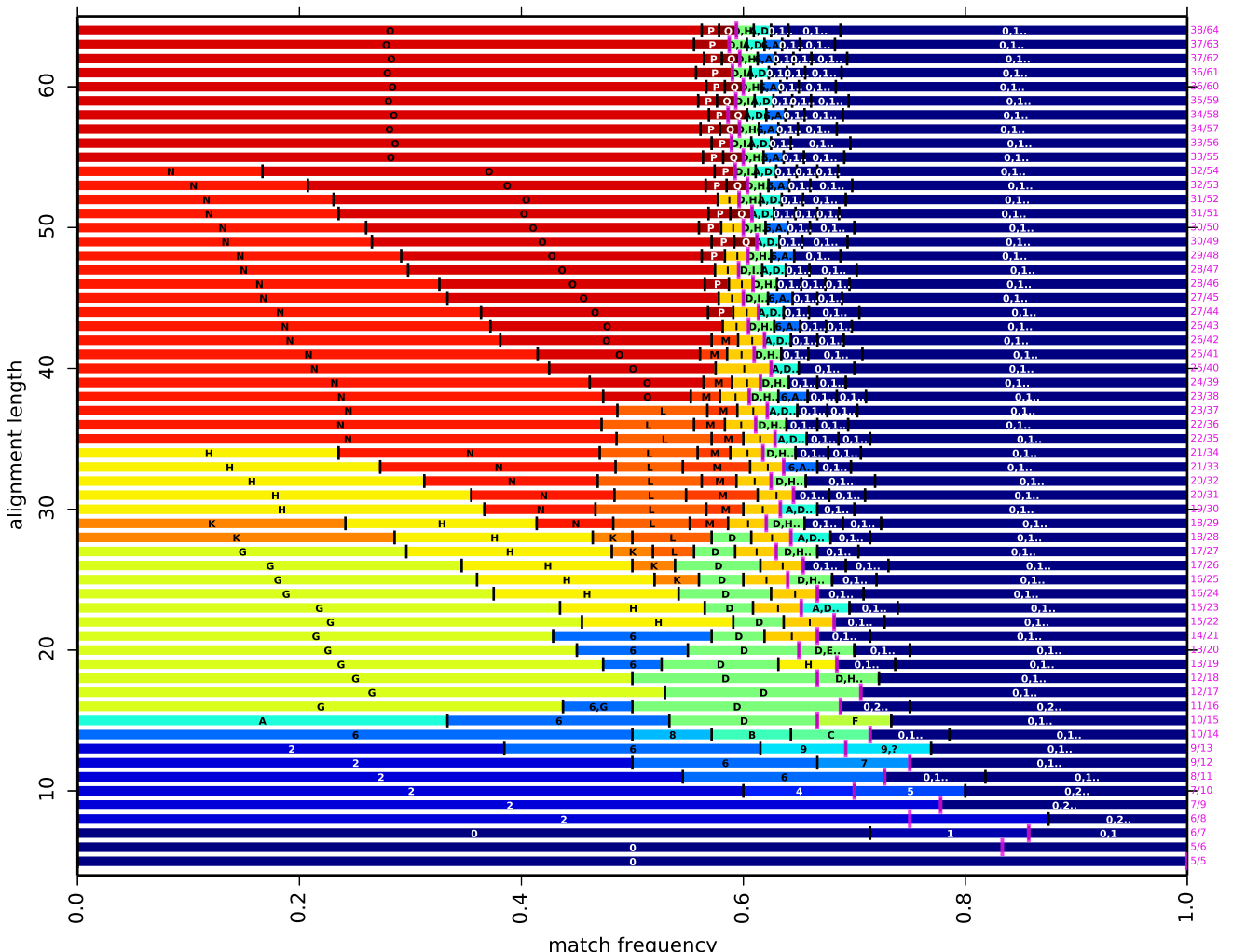
0 = 1111,10111,11011
 1 = 1111,1011,1010101
 2 = 1111,1011,1100011
 3 = 1111,110011,1001011
 4 = 11011,101011,11000011
 5 = 11011,1010101,11000011
 6 = 10111,1100011,11010001

7 = 11011,1100011,1100000011
 8 = 10111,1100101,110000011
 9 = 11011,11000011,1100000011
 A = 10111,101101,1100011
 B = 101011,1100101,1100000011
 C = 1010011,1100101,1100000011
 D = 10111,101101,10100011

E = 10111,1110001,1001011
 F = 11011,110000011,1100000000011
 G = 10111,1101001,11000101
 H = 11011,10010101,110000011
 I = 11011,101011,10000111
 J = 10111,1101001,101000011
 K = 11011,1000111,10010101

L = 11011,10100011,10100000011
 M = 10111,1010011,100100011
 N = 10111,10100011,1001000011
 O = 101011,1001000011,100010000011
 P = 10111,100100011,1001010001
 Q = 110011,10010101,1011000001

$$\sum_x^1 \text{Heaviside}(n:3,w:4)$$



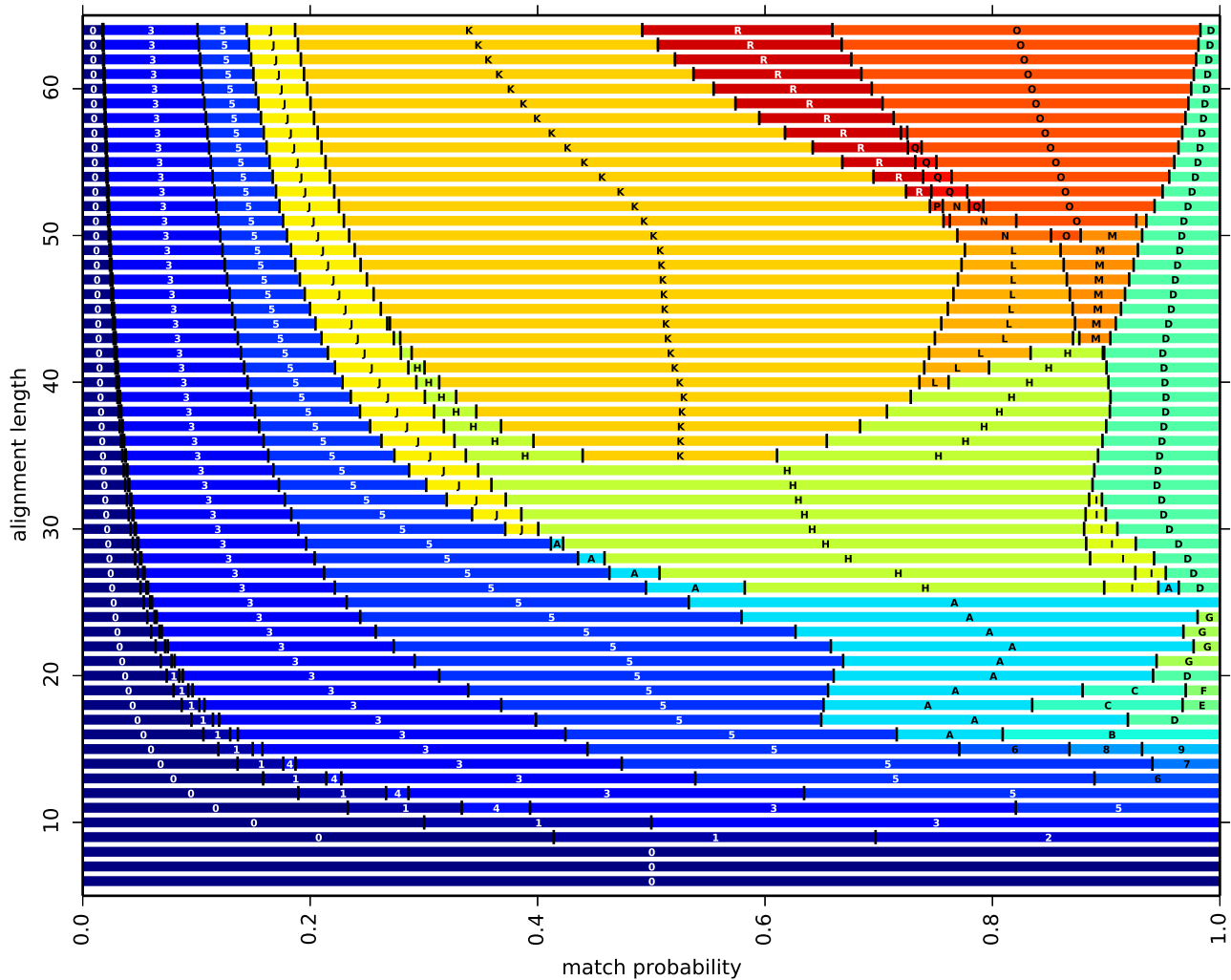
0 = 1111,10111,11011
 1 = 1111,11011,1010101
 2 = 1111,11011,1100011
 3 = 1111,110011,1001011
 4 = 11011,101011,11000011
 5 = 11011,1010101,11000011
 6 = 10111,1100011,11010001

7 = 11011,11000011,1100000011
 8 = 10111,1100101,110000011
 9 = 11011,11000011,1100000011
 A = 10111,101101,1100011
 B = 101011,1100101,1100000011
 C = 1010011,1100101,1100000011
 D = 10111,101101,10100011

E = 10111,111001,1001011
 F = 11011,110000011,1100000000011
 G = 10111,1101001,11000101
 H = 11011,10010101,11000011
 I = 11011,101011,1000011
 J = 10111,1101001,10100011
 K = 11011,1000111,10010101

L = 11011,10100011,10100000011
 M = 10111,1010011,100100011
 N = 10111,10100011,1001000011
 O = 101011,1001000011,100010000011
 P = 10111,100100011,1001010001
 Q = 110011,10010101,1011000001

Bernoulli (n:3,w:5)



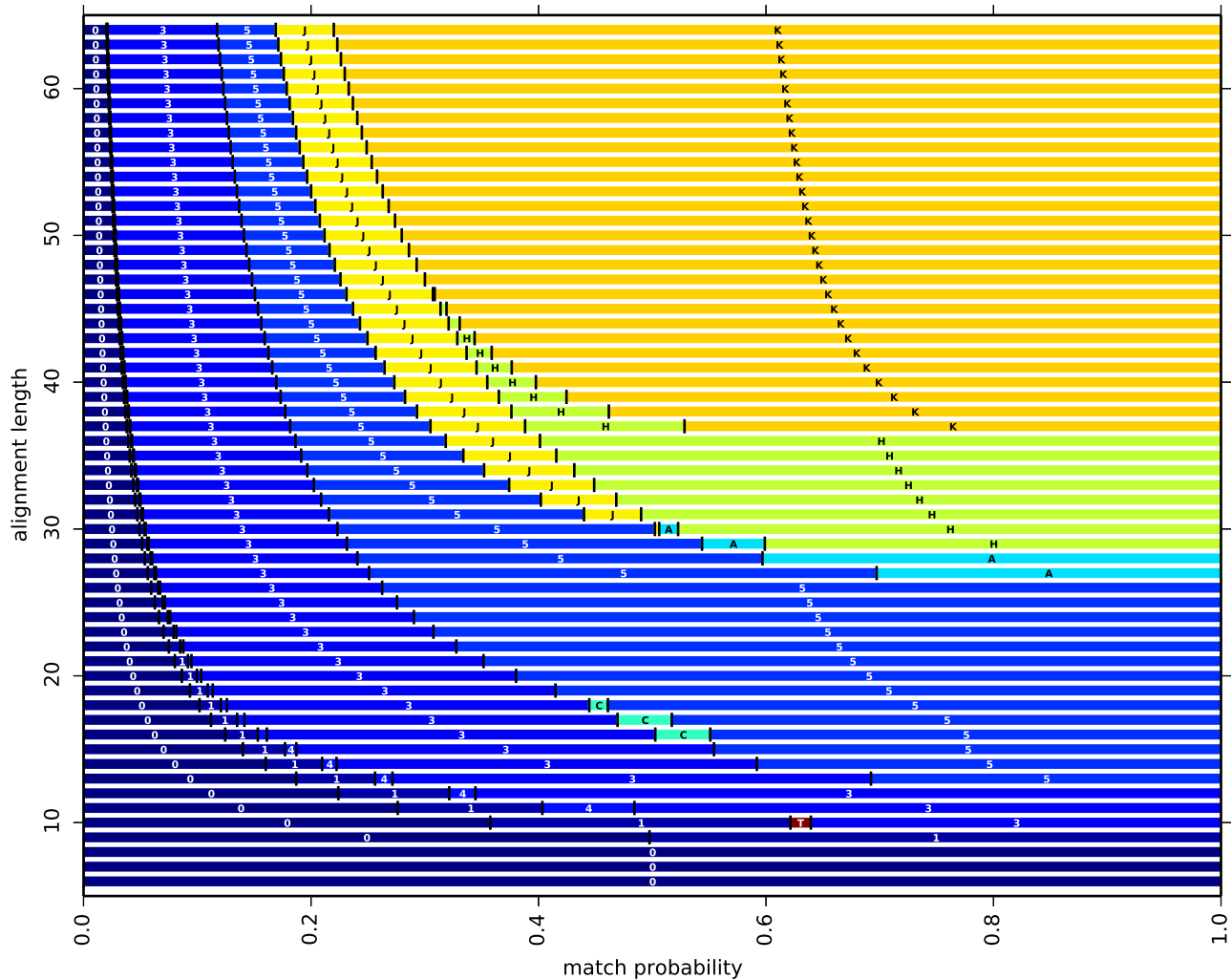
0 = 11111,10111,11011
 1 = 11111,11011,11011
 2 = 11011,1111001,11001011
 3 = 10111,1110011,11001011
 4 = 11111,1100111,1101011
 5 = 11011,11001011,110100011
 6 = 11011,11001011,1101000011

7 = 1101011,1010001011,1100100011
 8 = 1100111,110101001,11000001011
 9 = 11011,11010011,11010000011
 A = 110111,11001011,11010000101
 B = 1100111,11101001,110000001011
 C = 101111,1110101,11001101
 D = 11011,1101000011,1010001000011

E = 110111,1101000011,11010000000011
 F = 11111,1101011,110001011
 G = 110111,11010011,1010001011
 H = 110111,1010001011,10100100011
 I = 110111,101000111,11010010001
 J = 1101011,101000111,110010011
 K = 1101011,10100010011,110010000101

L = 1101011,1010001011,110010000101
 M = 1011101,101100011,1010010000011
 N = 1101011,10100010011,11100000100001
 O = 101001011,101000100011,10100000010011
 P = 10011101,1011000011,110001000101
 Q = 101001011,11100010001,10100000010011
 R = 10110011,11000010101,110000000100101

\int_0^x Hit Integration (n:3,w:5)



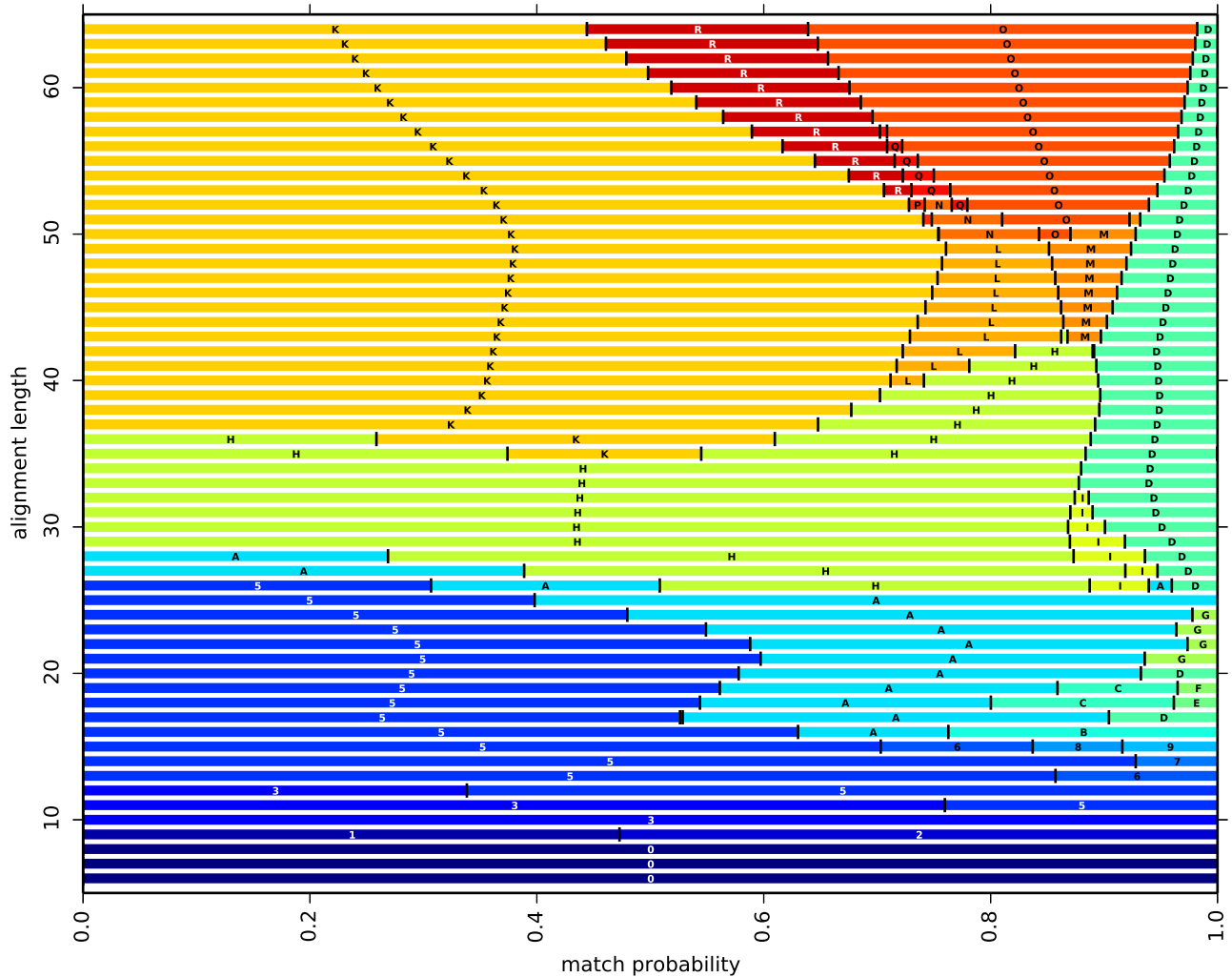
0 = 11111,101111,111011
 1 = 11111,110111,1101011
 3 = 101111,1110011,11001011

4 = 11111,1100111,1101011
 5 = 110111,11001011,110100011
 A = 110111,11001011,11010000101

C = 101111,1110101,11001101
 H = 110111,1010001011,10100100011
 J = 1101011,101000111,110010011

K = 1101011,10100010011,110010000101
 T = 11111,1101011,10110011

\int_x^1 Hit Integration (n:3,w:5)



```

0 = 11111,101111,111011
1 = 11111,110111,1101011
2 = 110111,1111001,11001011
3 = 101111,1110011,11001011
5 = 110111,11001011,110100011
6 = 110111,11001011,1101000011
7 = 1101011,1010001011,1100100011

```

```

8 = 1100111,110101001,11000001011
9 = 110111,11010011,110100000011
A = 110111,11001011,11010000101
B = 1100111,11101001,110000001011
C = 101111,1110101,11001101
D = 110111,1101000011,1010001000011
E = 110111,1101000011,11010000000011

```

```

F = 11111,1101011,110001011
G = 110111,11010011,1010001011
H = 110111,1010001011,10100100011
I = 110111,101000111,11010010001
K = 1101011,10100010011,110010000101
L = 1101011,1010001011,110010000101

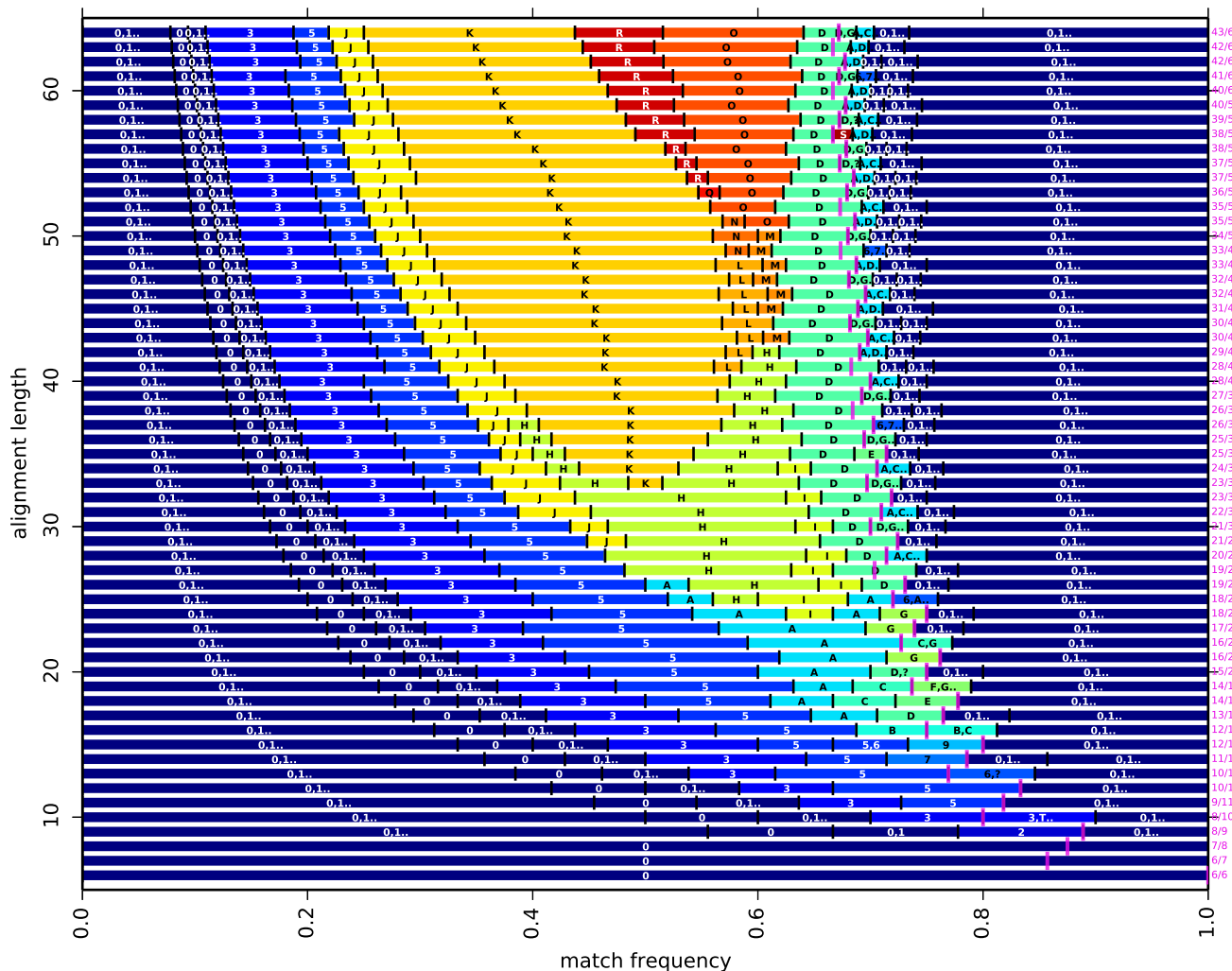
```

```

M = 1011101,101100011,1010010000011
N = 1101011,10100010011,11100000100001
O = 101001011,101000100011,10100000010011
P = 10011101,1011000011,110001000101
Q = 101001011,11100010001,10100000010011
R = 10110011,11000010101,110000000100101

```

Dirac (n:3,w:5)



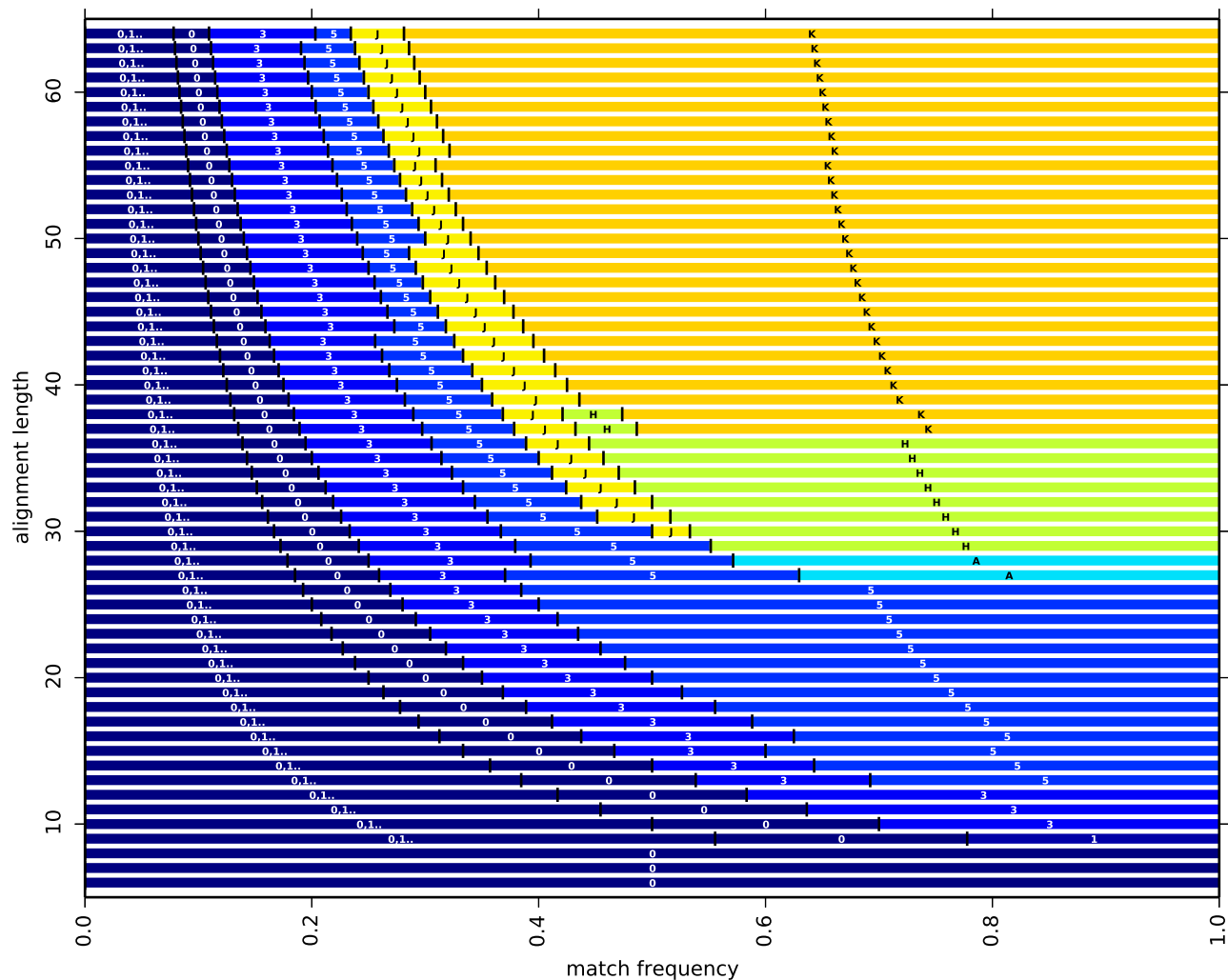
0 = 11111,101111,110111
 1 = 11111,110111,11010111
 2 = 110111,11110011,11001011
 3 = 101111,11100111,11001011
 4 = 11111,1100111,1101011
 5 = 110111,11001011,110100011
 6 = 110111,11001011,1101000011
 7 = 1101011,1010001011,1100100011

8 = 1100111,110101001,11000001011
 9 = 110111,11010011,110100000011
 A = 110111,11001011,11010000101
 B = 1100111,11101001,110000001011
 C = 101111,1110101,11001101
 D = 110111,1101000011,1010001000011
 E = 110111,1101000011,1101000000011
 F = 11111,1101011,110001011

G = 110111,11010011,1010001011
 H = 110111,1010001011,10100100011
 I = 110111,101000111,1101001001
 J = 1101011,101000111,110010011
 K = 1101011,10100010011,110010000101
 L = 1101011,1010001011,110010000101
 M = 1011101,101100011,1010010000011

N = 1101011,10100010011,11100000100001
 O = 101001011,101000100011,10100000010011
 P = 10011101,1011000011,1100010001
 Q = 101001011,11100010001,10100000010011
 R = 10110011,11000010101,110000000100101
 S = 1011101,101100011,1011000000011
 T = 11111,1101011,10110011

$$\sum_0^x \text{Heaviside}(n:3,w:5)$$



```

0 = 11111,101111,111011
1 = 11111,110111,1101011
2 = 110111,1111001,11001011
3 = 101111,1110011,11001011
4 = 11111,1100111,1101011
5 = 110111,11001011,110100011
6 = 110111,11001011,1101000011
7 = 1101011,1010001011,1100100011

```

```

8 = 1100111,110101001,11000001011
9 = 110111,11010011,11010000011
A = 110111,11001011,11010000101
B = 1100111,11101001,110000001011
C = 101111,1110101,11001101
D = 110111,1101000011,1010001000011
E = 110111,1101000011,1101000000011
F = 11111,1101011,110001011

```

```

G = 110111,11010011,1010001011
H = 110111,1010001011,10100100011
I = 110111,101000111,11010010001
J = 1101011,101000111,110010011
K = 1101011,10100010011,110010000101
L = 1101011,1010001011,110010000101
M = 1011101,101100011,1010010000011

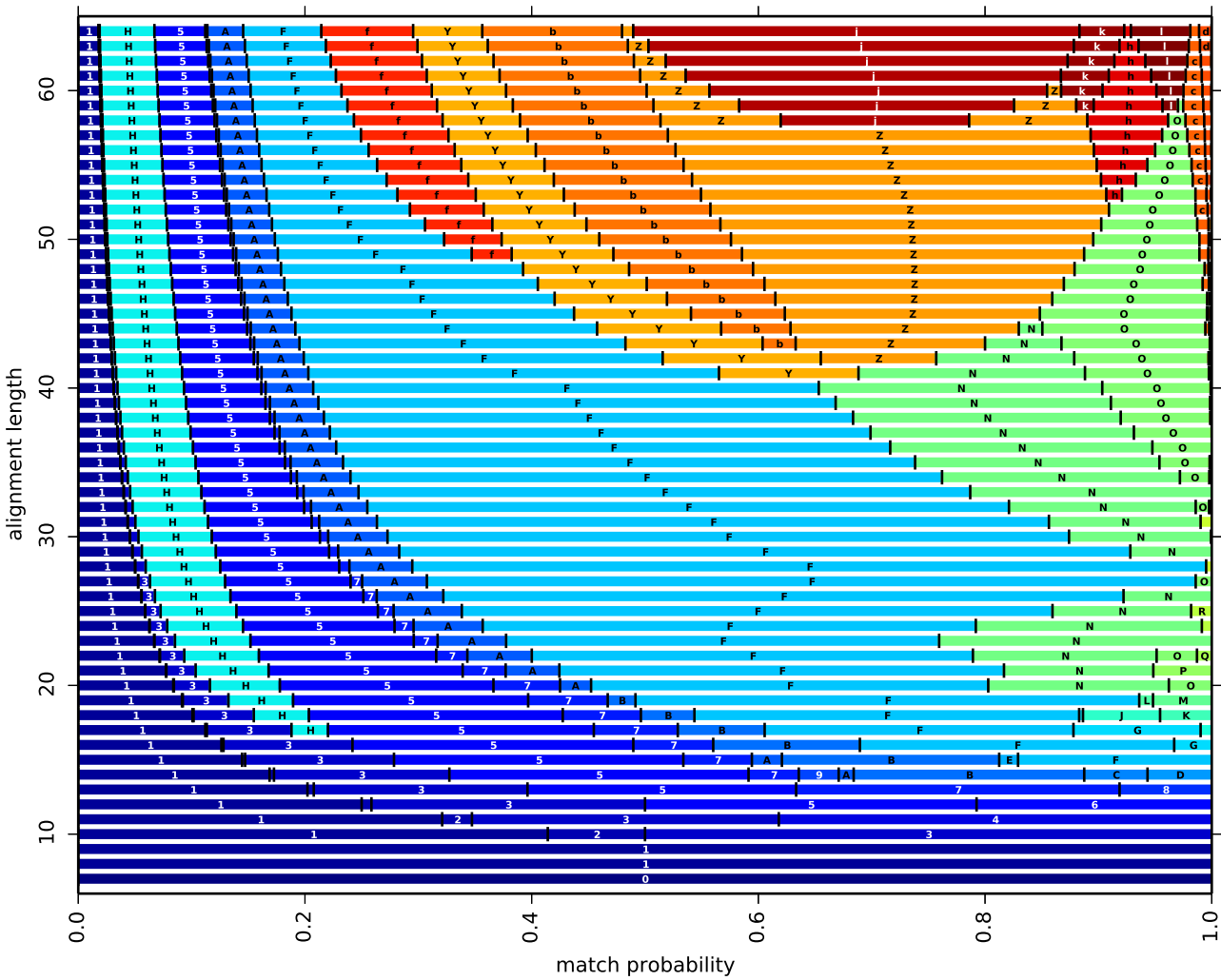
```

```

N = 1101011,10100010011,11100000100001
O = 101001011,101000100011,101000000100011
P = 10011101,1011000011,110001000101
Q = 101001011,11100010001,10100000010011
R = 10110011,11000010101,110000000100101
S = 1011101,101100011,1011000000011
T = 11111,1101011,10110011

```


Bernoulli (n:3,w:6)



```

0 = 111111,1011111,1111011
1 = 111111,1101111,1111011
2 = 111111,1110111,11011011
3 = 111111,11011011,111000111
4 = 1110111,10011111,111010011
5 = 1101111,11100011,110101011
6 = 1101111,10111011,1110000111
7 = 1101111,10111011,1110001011
8 = 1110111,110011011,1101000111
9 = 1101111,11110011,1100010111
A = 1101111,111010011,1110001011
B = 1110111,11011011,11010000111
C = 1110111,110100111,11100010011

```

```

D = 1110111,1101001011,11100000111
E = 11010111,110110011,11100001011
F = 1110111,1101001011,110010001011
G = 1110111,1101001011,1100100010011
H = 1011111,11101101,11110011
j = 1110111,1101001011,1101000001011
K = 1110111,1101000011,11000001001011
L = 1110111,1101001011,110000010001011
M = 1110111,1101001011,110100000001011
N = 1110111,1101001011,1100010001011
O = 1110111,1101001011,100100010001011
P = 11010111,11100010011,1101000000010011

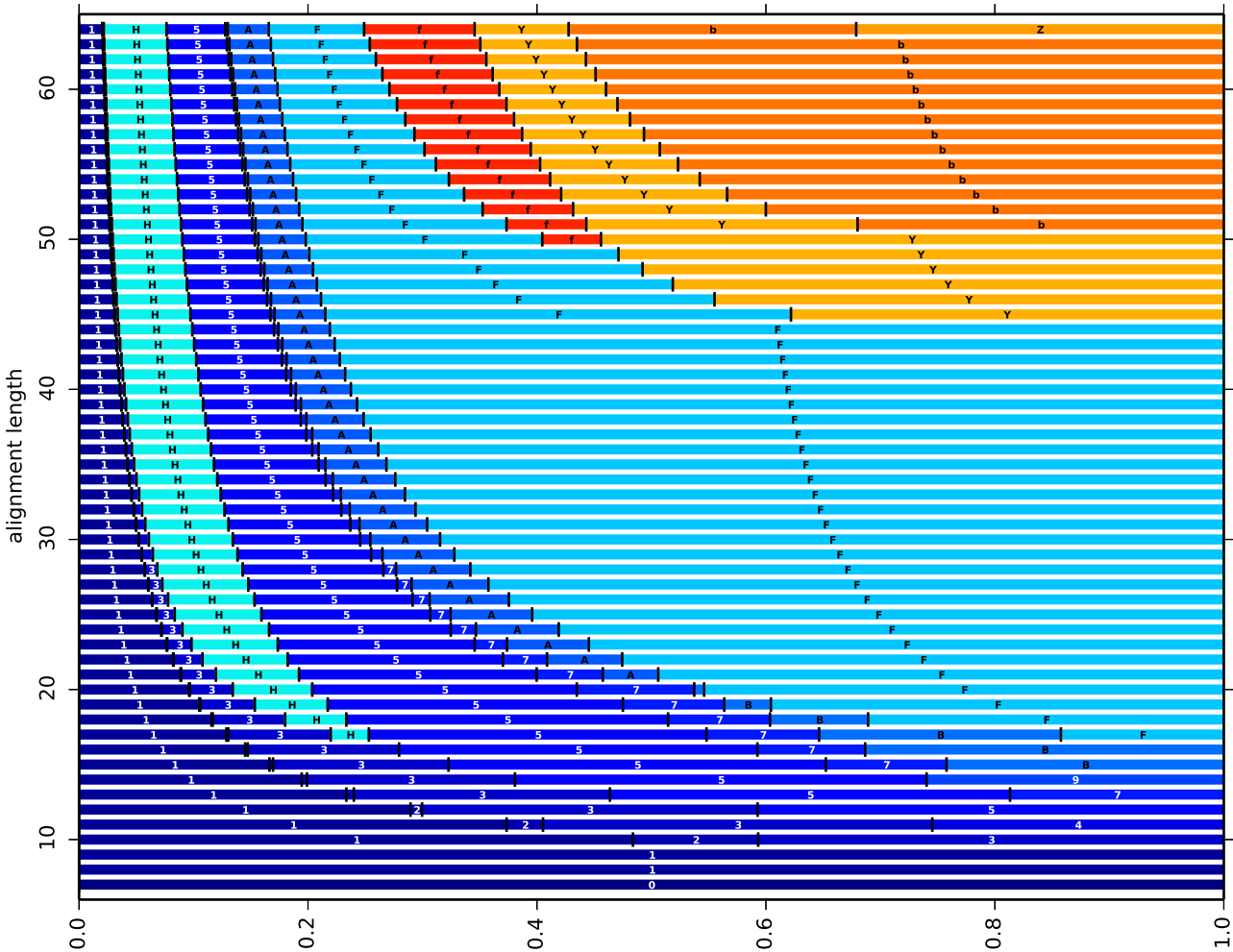
```

```

Q = 1101111,10111011,10110000111
R = 1101111,110101011,10110000111
Y = 11010111,110100001011,11001000001011
Z = 11010111,110100001011,1100100001000101
b = 110100111,11000101011,1100100000001011
c = 11010111,1101100101,1010000100111
d = 10110111,1101001000111,101100000010001011
f = 10110111,1110001011,110100100011
h = 11010111,1010100010011,1100001000010011
j = 1101000111,110001001011,1100100000000010101
k = 11010111,1101000010011,101000010000010011
l = 11010111,1101000010011,110100000100010001

```

\int_0^x Hit Integration (n:3,w:6)

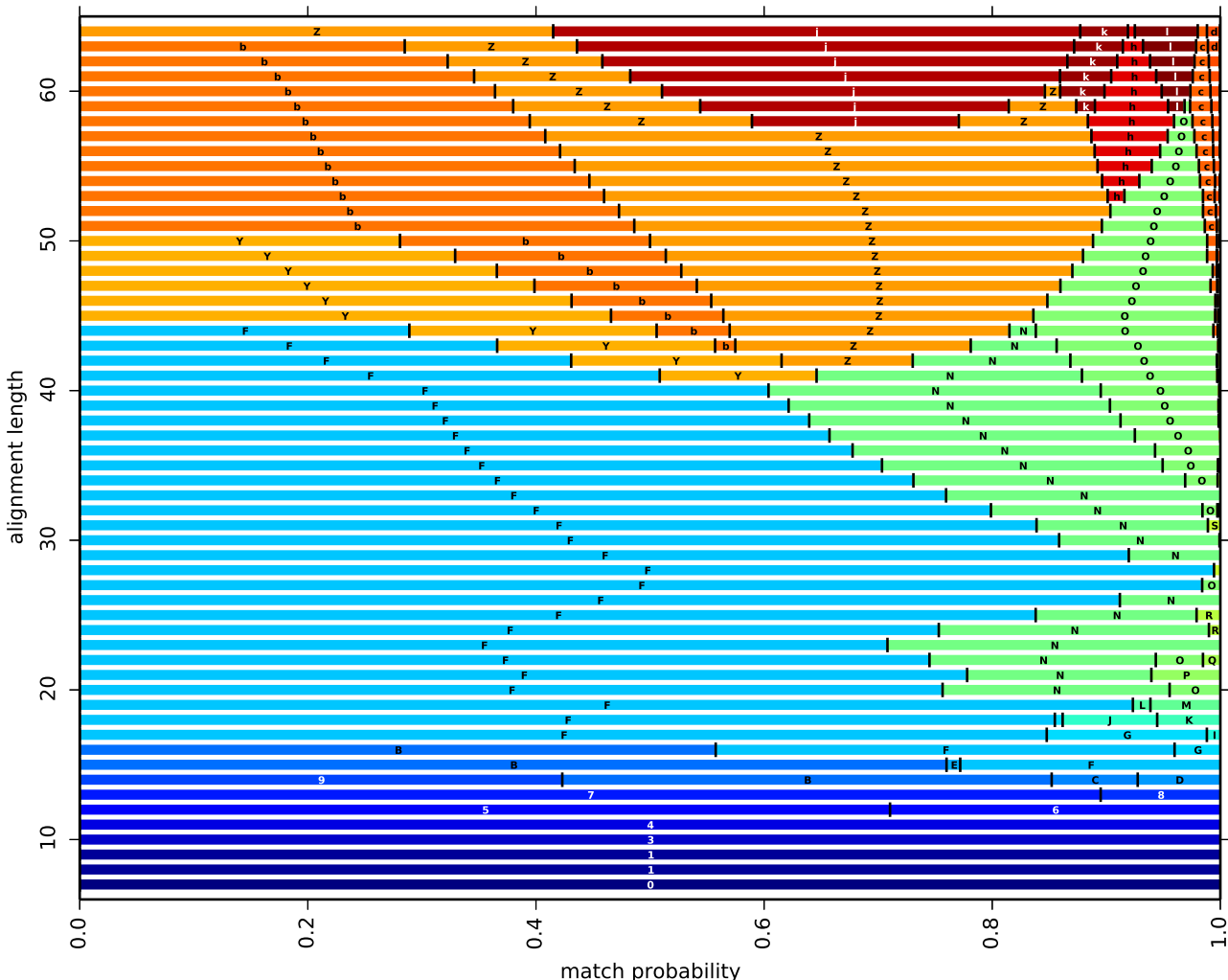


0 = 111111,1011111,1111011
 1 = 111111,1101111,1111011
 2 = 111111,1101011,11011011
 3 = 111111,11011011,11100111
 4 = 1110111,1001111,111010011
 5 = 1101111,11110011,110101011

7 = 1101111,10111011,1110001011
 9 = 1101111,11110011,1100010111
 A = 1101111,111010011,1110001011
 B = 1110111,11011011,11010000111
 F = 1110111,1101001011,110010001011

H = 1011111,11101101,11110011
 Y = 11010111,110100001011,11001000001011
 Z = 11010111,110100001011,1100100001000101
 b = 110100111,11000101011,1100100000001011
 f = 10110111,1110001011,1101001000011

\int_x^1 Hit Integration (n:3,w:6)



```

0 = 111111,1011111,1111011
1 = 111111,1101111,1111011
3 = 111111,11011011,1110011
4 = 1110111,10011111,111010011
5 = 1101111,11110011,110101011
6 = 1101111,10111011,1110000111
7 = 1101111,10111011,1110001011
8 = 1101111,110011011,1101000111
9 = 1101111,11110011,1100010111
B = 1110111,11011011,11010000111
C = 1110111,110100111,11100010011
D = 1110111,1101001011,11100000111

```

```

E = 11010111,110110011,11100001011
F = 1110111,1101001011,110010001011
G = 1110111,1101001011,1100100010011
I = 1110111,1101001011,1110000000011
J = 1110111,1101001011,11010000001011
K = 1110111,1101000011,11000001001011
L = 1110111,1101001011,110000010001011
M = 1110111,1101001011,110100000001011
N = 1110111,1101001011,1100010001011
O = 1110111,1101001011,100100010001011
P = 1110111,11100010011,1101000000010011
Q = 1110111,10111011,10110000111

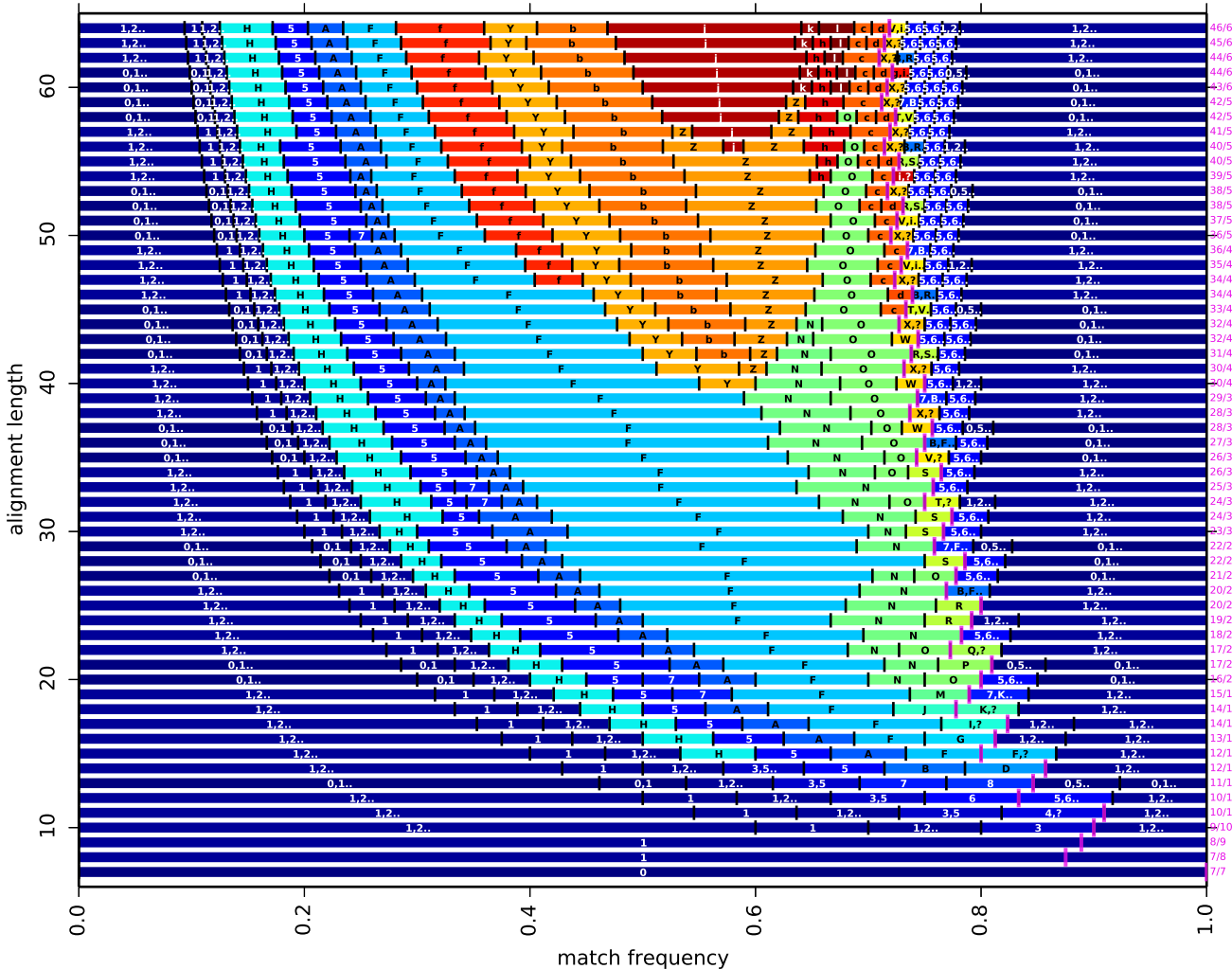
```

```

R = 1101111,110101011,101100000111
S = 1110111,1101001011,1001000100111
Y = 11010111,110100001011,110010000001011
Z = 11010111,110100001011,1100100001000101
b = 110100111,11000101011,11001000000001011
c = 11010111,1101100101,10100000100111
d = 10110111,101001000111,101100000001000101
h = 11010111,1010100010011,1100001000010011
j = 1101000111,110001001011,110010000000010101
k = 11010111,1101000010011,101000010000010011
l = 11010111,1101000010011,110100000100010001

```

Dirac (n:3,w:6)



```

0 = 111111,1011111,1111011
1 = 111111,1101111,1111011
2 = 111111,110111,11011011
3 = 111111,11011011,11100111
4 = 1101111,10011111,111010011
5 = 1101111,11110011,110101011
6 = 1101111,10111011,1110000111
7 = 1101111,10111011,1110001011
8 = 1101111,110011011,11101000111
9 = 1101111,11110011,1100010111
A = 1101111,111010011,1110001011
B = 1101111,11011011,11010000111
C = 1101111,110100111,111000100111
D = 1110111,1101001011,111100000111
E = 11010111,110110011,11100001011
F = 1110111,1101001011,110010001011

```

```

G = 1110111,1101001011,1100100010011
H = 1011111,111011011,111100111
I = 1110111,1101001011,11100000000111
J = 1110111,1101001011,11010000001011
K = 1110111,11010000011,11000001001011
L = 1110111,1101001011,110000010001011
M = 1110111,1101001011,110100000001011
N = 1110111,1101001011,1100010001011
O = 1110111,1101001011,100100010001011
P = 1101011,11100010011,1101000000010011
Q = 1101111,10111011,101100000111
R = 1101111,110101011,10110000111
S = 1110111,1101001011,1001000100111
T = 1101011,1100011011,1101000000111
U = 1101011,110111001,110100000111
V = 1110111,1001001011,1001010000111

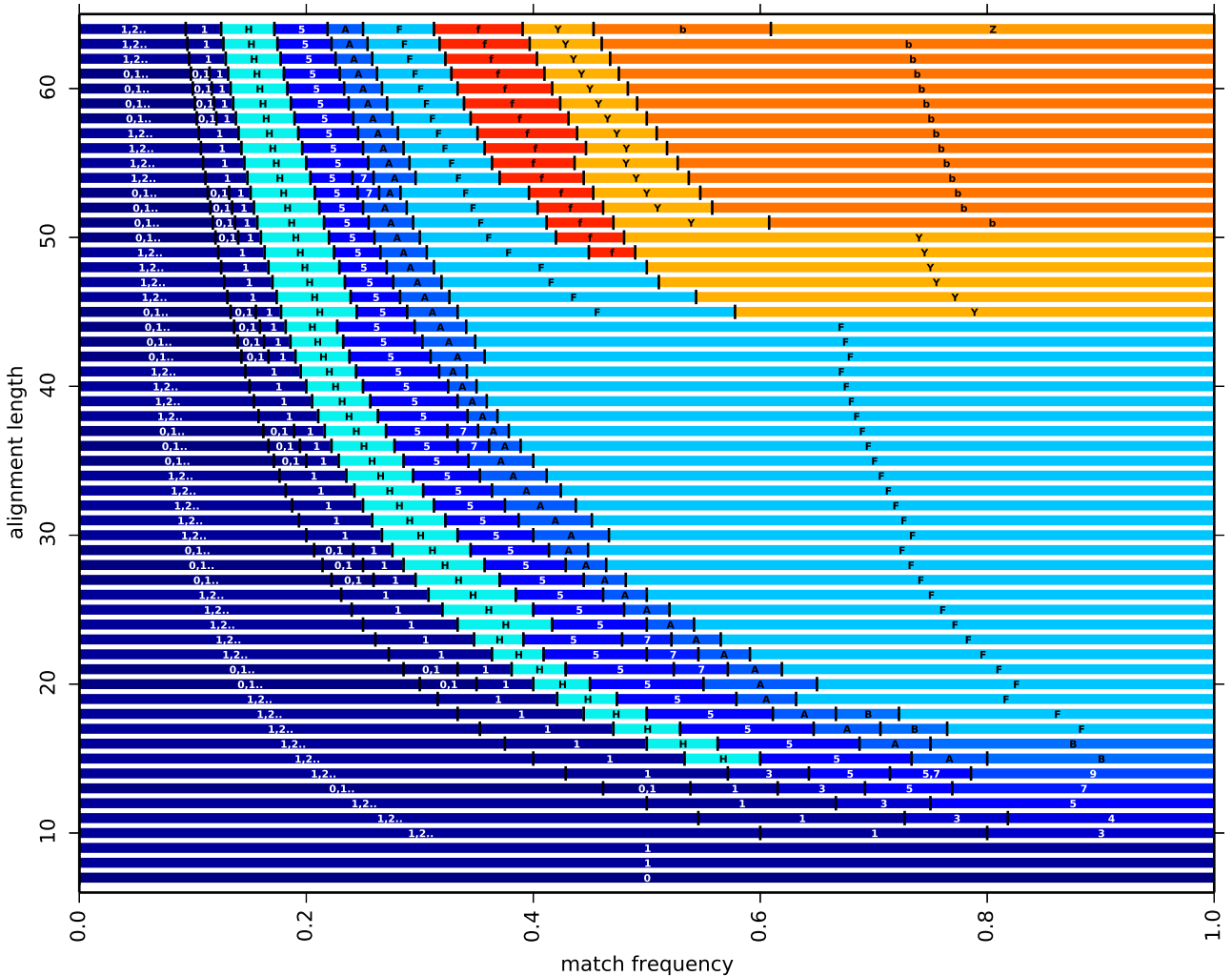
```

```

W = 1101111,110101011,100110000111
X = 1011011,1001000111,10100010111
Y = 1101111,11010001011,11001000001011
Z = 1101011,110100001011,1100100001000101
a = 1110111,1101001011,10100010001011
b = 110100111,11000101011,1100100000001011
c = 1101011,1101100101,1010000100111
d = 1011011,10100100011,10110000001000101
e = 1110111,1011001011,1001000000111
f = 1011011,111000101,110100010011
g = 1101011,1010001101,11001000010111
h = 1101011,1010100010011,1100001000010011
i = 1010111,110011011,10101000010101
j = 110100011,110001001011,11001000000010101
k = 1101011,1101000010011,101000010000010011
l = 1101011,1101000010011,110100000100010001

```

$$\sum_0^x \text{Heaviside}(n:3,w:6)$$



```

0 = 111111,1011111,11110011
1 = 111111,1101111,11110111
2 = 111111,1110111,11011011
3 = 111111,1101011,111000111
4 = 1110111,10011111,111010011
5 = 1101111,11110011,110101011
6 = 1101111,10111011,1110000111
7 = 1101111,10111011,1110001011
8 = 1101011,11001011,1101000111
9 = 1101111,11110011,1100010111
A = 1101111,111010011,1110001011
B = 1110111,11011011,11010000111
C = 1110111,110100111,11100010011
D = 1110111,1101001011,11100000111
E = 11010111,110110011,11100001011
F = 1110111,1101001011,110010001011

```

```

G = 1110111,1101001011,1100100010011
H = 1011111,11101101,11110011
I = 1110111,1101001011,11100000000111
J = 1110111,1101001011,110100000001011
K = 1110111,1101000011,11000001001011
L = 1110111,1101001011,110000010001011
M = 1110111,1101001011,110100000001011
N = 1110111,1101001011,1100010001011
O = 1110111,1101001011,100100010001011
P = 11010111,11100010011,11010000000100111
Q = 1101111,10111011,10110000111
R = 1101111,110101011,10110000111
S = 1110111,1101001011,1001000100111
T = 11010111,1100011011,1101000000111
U = 11010111,110111001,110100000111
V = 1110111,1001001011,1001010000111

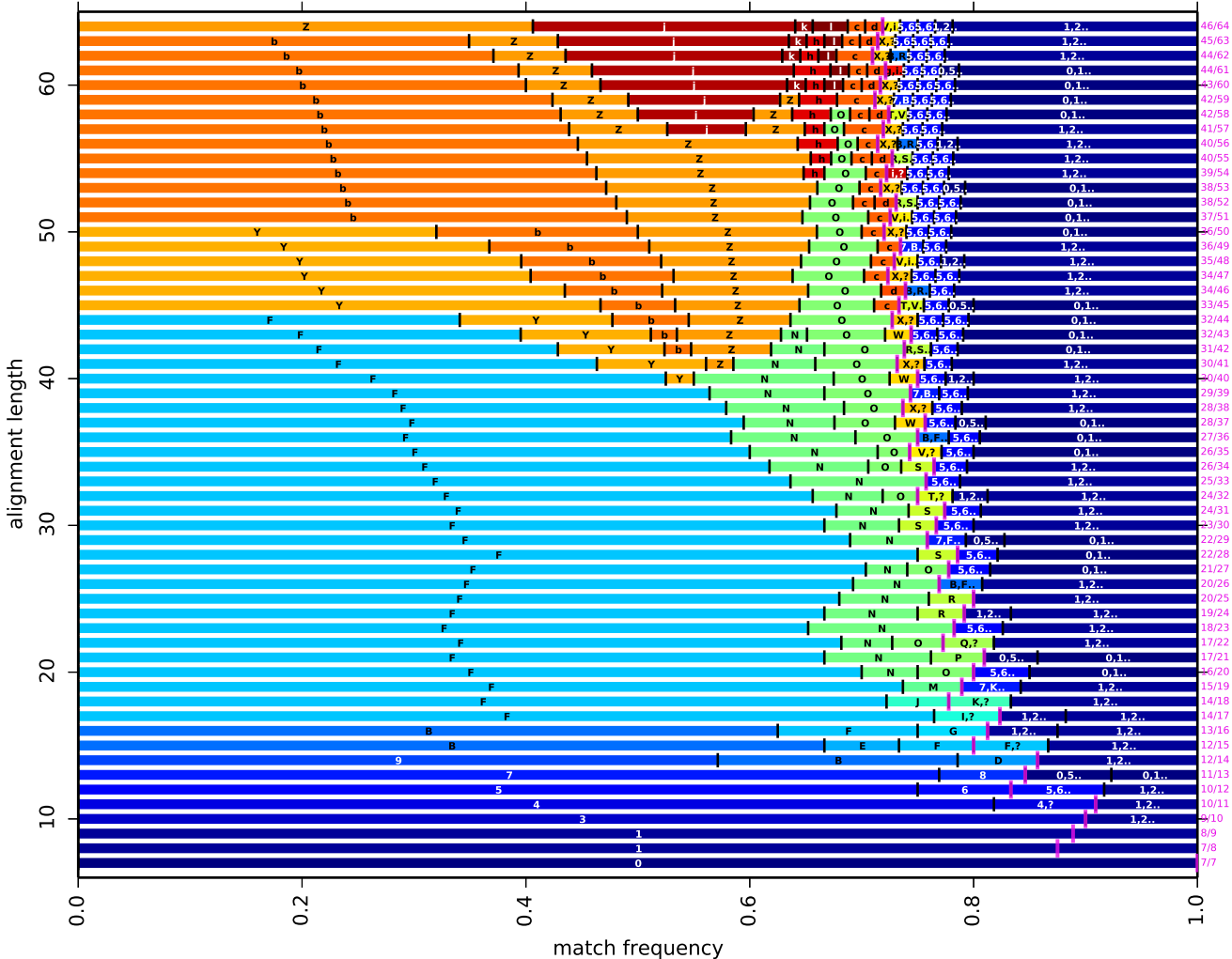
```

```

W = 1101111,110101011,1001100001011
X = 10110111,10010001111,10100010111
Y = 11010111,110100001011,11001000001011
Z = 11010111,110100001011,1100100000100101
a = 1110111,1101001011,10100100010011
b = 110100111,11000101011,1100100000001011
c = 11010111,1101100101,1010000100111
d = 10110111,101001000111,10110000001000101
e = 1110111,10110001011,1001010000111
f = 10110111,1110001011,110100100011
g = 11010111,10100011011,10010000100111
h = 11010111,1010100010011,1100001000010011
i = 1010111,110011011,1010100001101
j = 1101000111,110001001011,110010000000010101
k = 11010111,1101000010011,101000010000010011
l = 11010111,1101000010011,110100000100010001

```

$$\sum_x \text{Heaviside}(n:3,w:6)$$



```

0 = 111111,1011111,1111011
1 = 111111,1101111,1111011
2 = 111111,1110111,11011011
3 = 111111,11011011,11100111
4 = 1110111,10011111,111010011
5 = 1101111,11110011,110101011
6 = 1101111,10111011,1110000111
7 = 1101111,10111011,1110001011
8 = 1110111,110011011,1101000111
9 = 1101111,11110011,110001011
A = 1101111,111101011,1110001011
B = 1110111,11011011,1101000011
C = 1110111,110100111,11100010011
D = 1110111,1101001011,11100000111
E = 11010111,110110011,11100001011
F = 1110111,1101001011,11001000111

```

```

G = 1110111,1101001011,1100100010011
H = 1011111,11101101,11110011
I = 1110111,1101001011,11100000000111
J = 1110111,1101001011,11010000001011
K = 1110111,1101000011,11000001001011
L = 1110111,1101001011,110000010001011
M = 1110111,1101001011,110100000001011
N = 1110111,1101001011,1100010001011
O = 1110111,1101001011,100100010001011
P = 1110111,11100010011,1101000000010011
Q = 1101111,10111011,10110000111
R = 1101111,110101011,1011000011
S = 1110111,1101001011,1001000100111
T = 11010111,1100011011,1101000000111
U = 11010111,110111001,110100000111
V = 1110111,1001001011,1001010000111

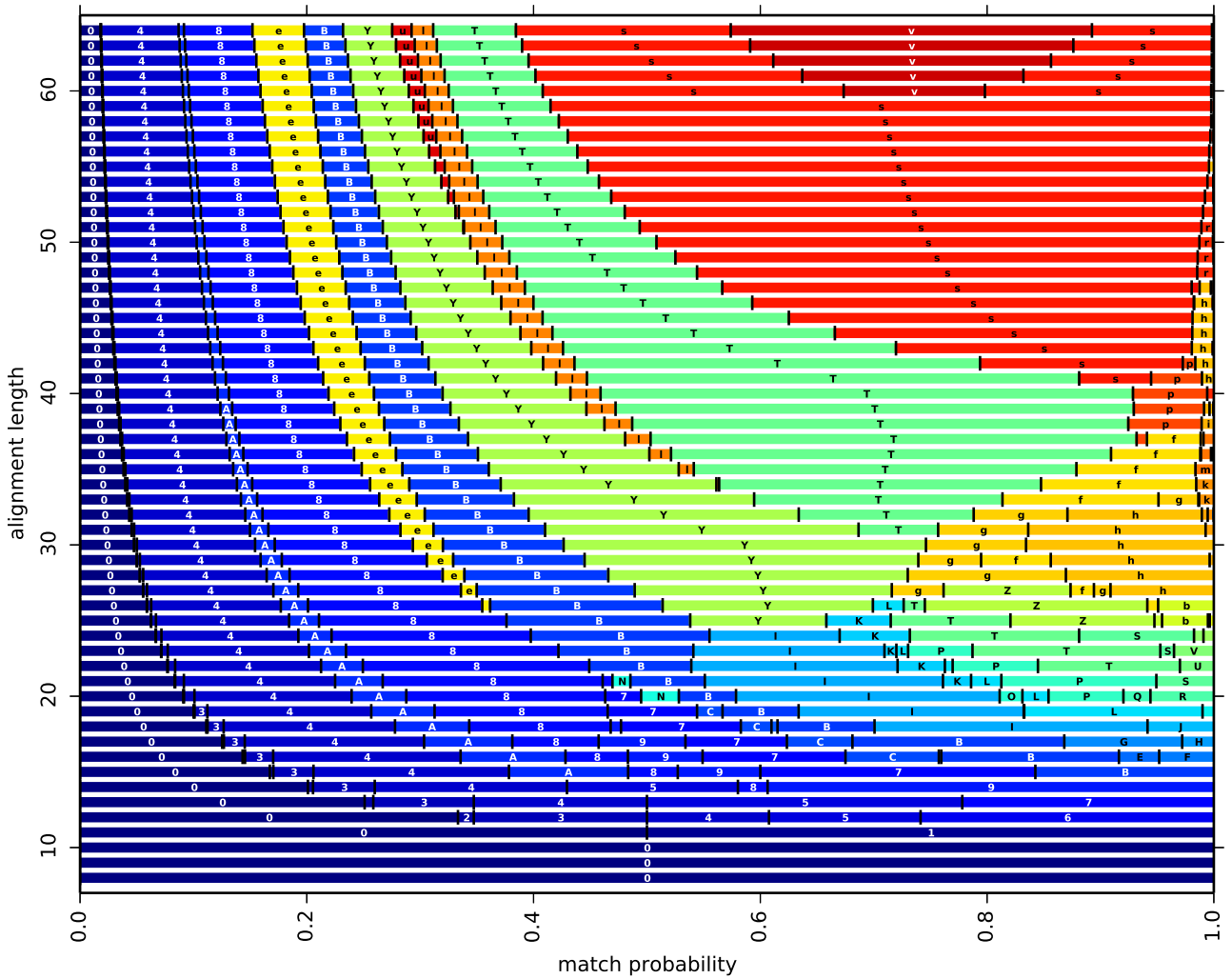
```

```

W = 1101111,110101011,100110000111
X = 10110111,10010001111,10100010111
Y = 11010111,110100001011,11001000001011
Z = 11010111,110100001011,1100100000100101
a = 1110111,1101001011,10100100010011
b = 110100111,11000101011,110010000001011
c = 11010111,1101100101,1010000100111
d = 10110111,101001000111,10110000001000101
e = 1110111,10110001011,1001010000111
f = 10110111,11100010011,110100100011
g = 11010111,1010001011,10010000100111
h = 11010111,1010100010011,1100001000010011
i = 10101111,110011011,1010100001101
j = 1101000111,110001001011,110010000000010101
k = 11010111,1101000010011,101000010000010011
l = 11010111,1101000010011,110100000100010001

```

Bernoulli (n:3,w:7)



```

0 = 1111111,1101111,11110111
1 = 1111111,11010111,11011011
2 = 1111111,1101111,11011011
3 = 1111111,11011011,11100111
4 = 1011111,11011011,111100111
5 = 1110111,11110011,11001111
6 = 1101111,11110101,110001011
7 = 1110111,11110011,1101001011
8 = 1101111,11110101,1110010011
9 = 1110111,11011011,1111000101
A = 1101111,11110101,111001011
B = 1101011,1110010011,111010001011
C = 1101111,11110101,11100010011
E = 1101011,111001001101,111100010011
F = 1101011,111100010011,10001001101011
G = 1101111,1110010011,1110001010011

```

```

H = 11010111,111001011,11101000001011
I = 1110111,1101001011,1110100010011
J = 11010111,11100110011,111010000010011
K = 1110111,1101001011,11101000100011
L = 11010111,11100110011,111010000001011
N = 1101111,11110101,11100100011
O = 1101011,11100101,1110100000011
P = 1101011,11100010101,11100100000011
Q = 11101011,11010010011,1110000010011
R = 11101011,1101001011,11100000010011
S = 1110111,11010001011,111000100001011
T = 11010101,11100100101,11010000010011
U = 11010101,11100100101,1110100000001101
V = 111001011,11100100101,1110000000001011
Y = 11011011,11101010011,1110000101011

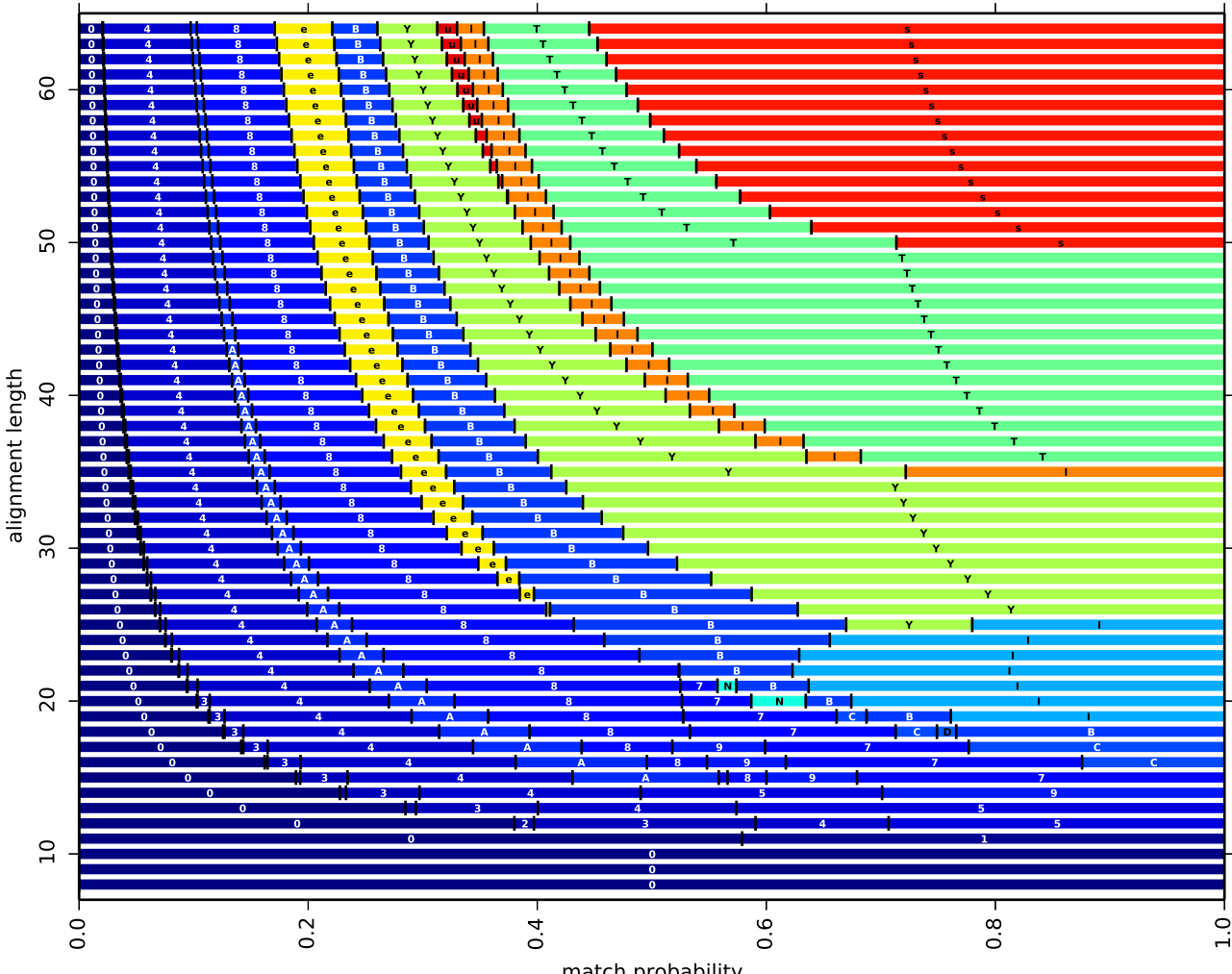
```

```

Z = 1101011,1110100001011,1101000001000111
b = 110101011,111001001011,1110000100000010011
e = 1101011,1101100101,11100110011
f = 1101011,11110010011,1101010000010011
g = 1101011,11101100101,110100010011
h = 1101011,11101100101,111000100101
i = 1110111,1101001011,1101000100010011
k = 11101011,1100101101,11100100001011
l = 11011011,11010100011,11100001010011
m = 1101011,11101100101,11010000001011
p = 110101011,11100100101,1110010000001011
r = 1101011,11010001011,11010001000010011
s = 110101011,1110000100101,11010001000100011
u = 101100111,1110101001,1110000101011
v = 1101001011,110100010001011,110001000010001011

```


\int_0^x Hit Integration (n:3,w:7)



```

0 = 1111111,11011111,11110111
1 = 1111111,110101111,11011011
2 = 1111111,1101111,110110111
3 = 1111111,110110111,111001111
4 = 10111111,111011011,111100111
5 = 11101111,111110011,1100101111
7 = 11101111,111110011,1101001011

```

```

8 = 11011111,1111101011,11100110011
9 = 11101111,110110111,11110001011
A = 11101111,1111101011,1110011011
B = 11101111,11100110011,111010001011
C = 11011111,1111101011,1111000100111
D = 11101111,1110100111,1110010100111
I = 11101111,11010010111,1110100010011

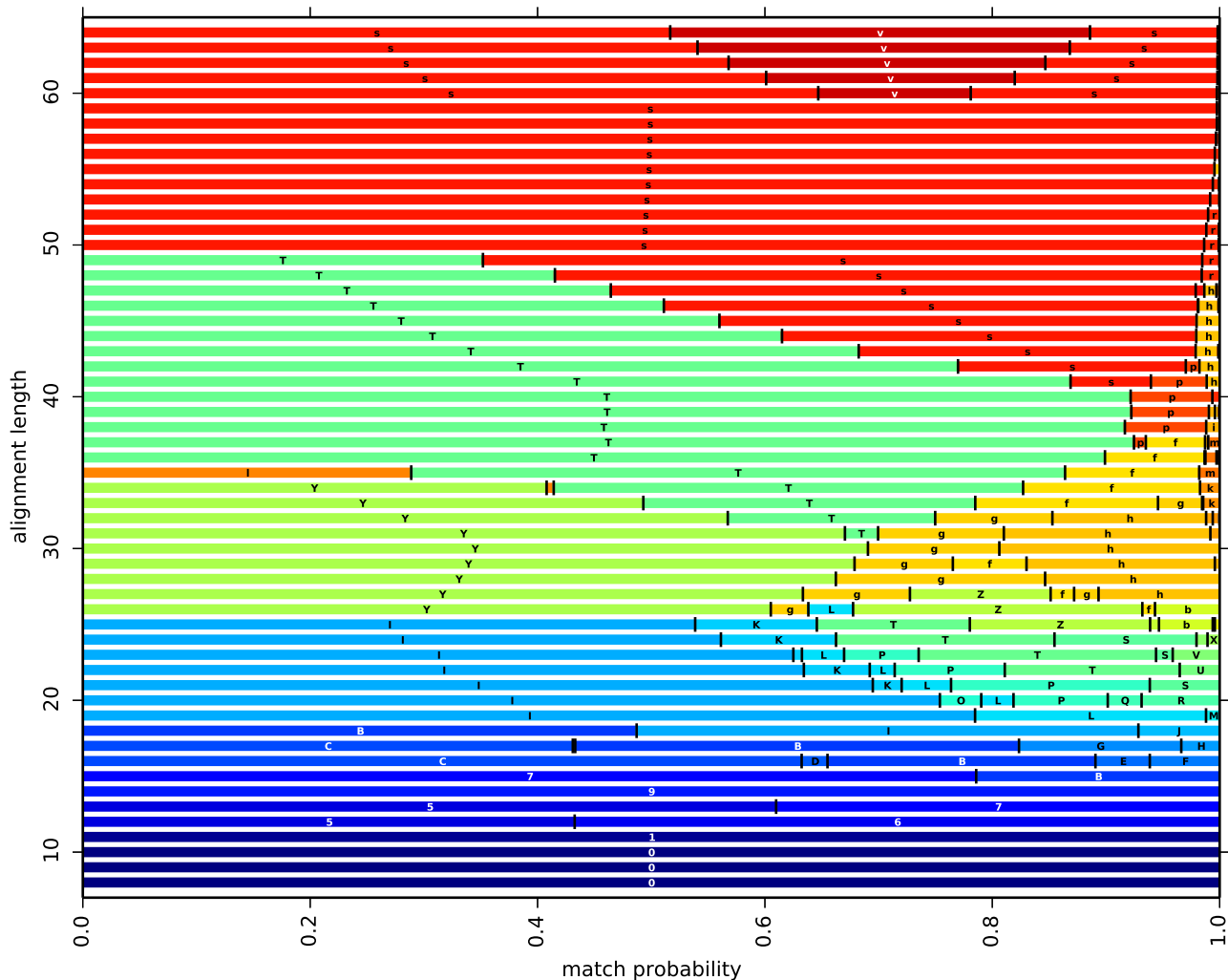
```

```

N = 11011111,1111101011,111001000111
T = 1101101011,111001001011,110100000100111
Y = 110110111,111011010011,1110000101011
e = 110101111,11011001011,11100110011
l = 110111011,110101000111,11100001010011
s = 110101011,11100001001011,1101001000100011
u = 1011001111,11101010011,1110000101011

```

\int_x^1 Hit Integration (n:3,w:7)



```

0 = 1111111,1101111,11110111
1 = 1111111,11010111,111011011
5 = 11101111,111110011,1100101111
6 = 11011111,111101011,11000110111
7 = 11101111,111110011,11010010111
9 = 11101111,110110111,11110001011
B = 11010111,11100110011,111010001011
C = 11011111,111101011,111000100111
D = 11011111,1110100111,111001010011
E = 11010111,111001001101,111100010011
F = 11010111,111100010011,10001001101011
G = 11011111,11100100111,1110001010011
H = 11010111,1110011011,11101000001011
I = 11101111,11010010111,1110100010011

```

```

J = 110101111,11100110011,111010000010011
K = 11101111,11010010111,11101000100011
L = 11010111,11100110011,111010000001011
M = 110101111,1110011011,111100000001101
O = 11010111,1110011011,11101000000111
P = 110110111,111000101011,11100100000111
Q = 111010111,11010010011,111000000100111
R = 111010111,11010010111,111000000100111
S = 11101111,11010001011,111000100001011
T = 110101011,111001001011,1101000000100111
U = 110101011,111001001011,11101000000001101
V = 111001011,111001001011,1110000000010111
X = 111001011,10110000100111,11100100000001011
Y = 110110111,11101010011,1110000101011

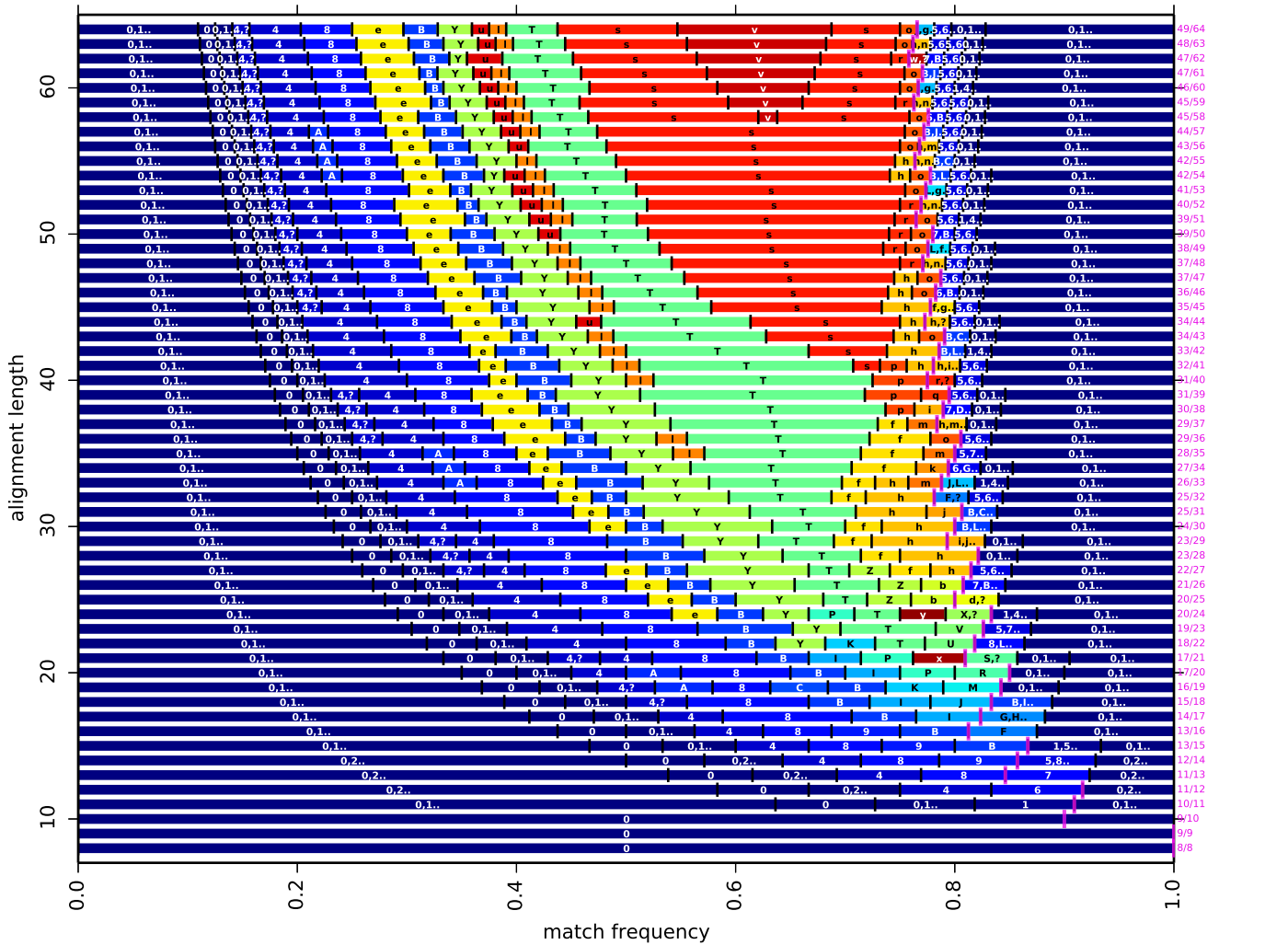
```

```

Z = 110110111,1110100001011,1101000001000111
b = 110101011,111001001011,1110000100000010011
f = 110101111,11110010011,1101010000010011
g = 110101111,11101100101,1101000100111
h = 110101111,11101100101,1110001001101
i = 11101111,11010010111,1101000100010011
k = 111010111,11001011011,111001000001011
l = 110111011,11010100011,11100000100011
m = 110101111,11101100101,110100000010111
p = 110101011,111001001011,1110010000001011
r = 11010111,11010001011,11010001000010011
s = 110101011,11100001001011,1101001000100011
v = 11010010111,110100010001011,110001000010001011

```

Dirac (n:3,w:7)



```

0 = 1111111,1101111,11101011
1 = 1111111,11010111,110101011
2 = 1111111,11010111,11010111
3 = 1111111,11010111,11000111
4 = 1011111,110101011,111000111
5 = 111010111,111100011,110010111
6 = 11011111,111101011,1100010111
7 = 11010111,111100011,1101000111
8 = 11010111,111010111,1101000111
9 = 11010111,110101011,11100001011
A = 11011111,111101011,1110010111
B = 11010111,11100100011,111010001011
C = 11011111,111101011,111000100111
D = 11011111,1110100111,111001010011
E = 11010111,111001001101,111100010011
F = 11010111,111100010011,10001001101011
G = 11011111,11100100111,1110001010011
H = 11010111,1110010101,11101000001011
I = 11101111,11010010111,1110100010011
J = 11010111,11100110011,111010000010011
K = 11101111,1101001011,11101000100011
    
```

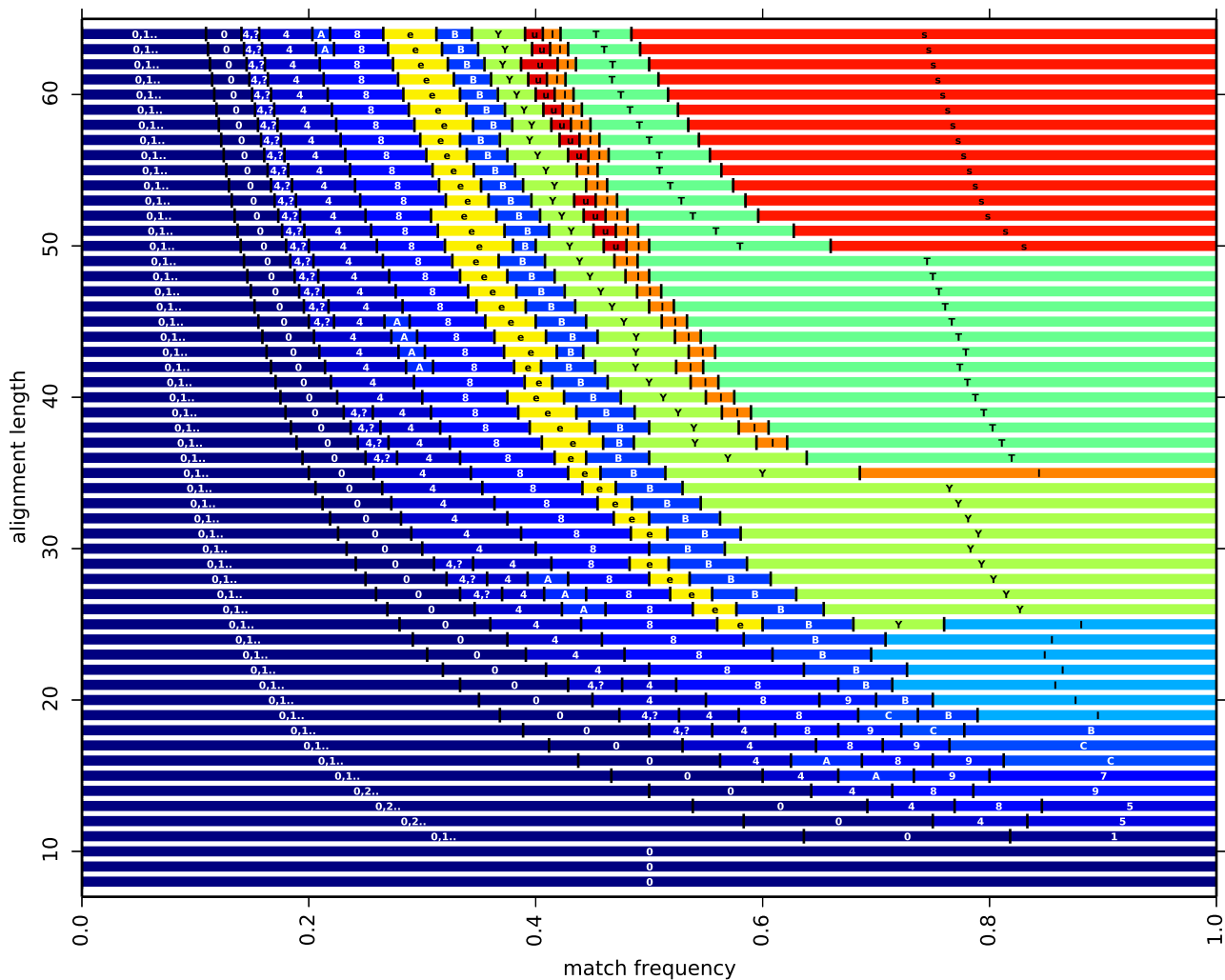
```

L = 110101111,11100100111,111010000001011
M = 110101111,1110011011,111100000001101
N = 11011111,111101011,1110010000111
O = 110101111,1110010111,11101000000111
P = 110101011,11100010101,111001000000111
Q = 110101011,110100100111,111000000100111
R = 111010111,11010010111,111000000100111
S = 11010111,110100010111,111000100001011
T = 110101011,111001001011,11101000000100111
U = 110101011,111001001011,1110100000001101
V = 111001011,111001001011,11100000000010111
W = 111001011,11100100001101,11010000000010111
X = 111001011,11010000100111,111001000000001011
Y = 110101111,1110101011,11100000101011
Z = 110101111,111010001011,11010000010000111
a = 110101011,111001001011,11101000000001011
b = 110101011,111001001011,111000010000001011
c = 11101111,110101011,111001001011
d = 110101111,1110001001101,1011000000000010111
e = 110101111,1101001011,11100110011
f = 110101111,11110010011,1101010000010011
    
```

```

g = 110101111,11101100101,1101000100111
h = 110101111,11101100101,11100010001101
i = 11010111,1101001011,11010000100010111
j = 110101111,110111000101,11010000100111
k = 110101011,1100101011,111001000001011
l = 11011011,110101000111,111000001000111
m = 110101111,11101100101,110100000010111
n = 11010111,11110010011,10101010000100111
o = 11101111,1101001011,10011000101011
p = 110101011,11100101011,1100100000010111
q = 11101111,11010010111,1001000100010111
r = 11010111,11010001011,11010001000010111
s = 110101011,1110000100101,11010010001000111
t = 110101011,111001001011,10011000000001011
u = 110100111,11101010011,1110000101011
v = 1101001011,110100010001011,1100010000100010111
w = 110101111,11010001011,1100111001001
x = 111010111,110100100111,11100100000001011
y = 110101011,111001001011,11011000000000111
z = 110101011,111000010101,11010000000100111
    
```

$$\sum_0 \text{Heaviside}(n:3,w:7)$$



```

0 = 1111111,1101111,111100111
1 = 1111111,110101111,110110111
2 = 1111111,11101111,110110111
3 = 1111111,110110111,111000111
4 = 1011111,111011011,111100011
5 = 11101111,11110011,110010111
6 = 1101111,111101011,1100010111
7 = 1110111,11110011,1101000111
8 = 1101111,111101011,1110010011
9 = 1110111,110110111,11110001011
A = 1101111,111101011,1110011011
B = 11010111,1110010011,111010001011
C = 1101111,111101011,111000100111
D = 1110111,1110100111,111001010011
E = 11010111,111001001101,111100010011
F = 11010111,111100010011,10001001101011
G = 1101111,11100100111,1110001010011
H = 11010111,1110010101,11101000001011
I = 1110111,11101001011,1110100010011
J = 11010111,11100110011,111010000010011
K = 1110111,1101001011,11101000100011

```

```

L = 11010111,11100110011,111010000001011
M = 11010111,1110011011,11110000000101
N = 1101111,111101011,111001000111
O = 11010111,1110011011,11101000000111
P = 11011011,11100010101,111001000000111
Q = 11101011,111010010011,111000000100111
R = 11101011,1101001011,111100000010011
S = 1110111,11010001011,111000100001011
T = 11010111,11100100101,1111000000010011
U = 11011011,11100100101,1110100000001101
V = 111001011,11100100101,1110000000001011
W = 111001011,11100100001101,11010000000010011
X = 111001011,10110000100111,111001000000001011
Y = 11011011,11101010011,11110000101011
Z = 11011011,111010000101,1101000001000111
a = 110101011,11100100101,111010000000010011
b = 110101011,11100100101,1110000100000010011
c = 1110111,110101011,111001001011
d = 11010111,1110001001101,1011000000000010111
e = 11010111,1101100101,11100110011
f = 11010111,11110010011,1101010000010011

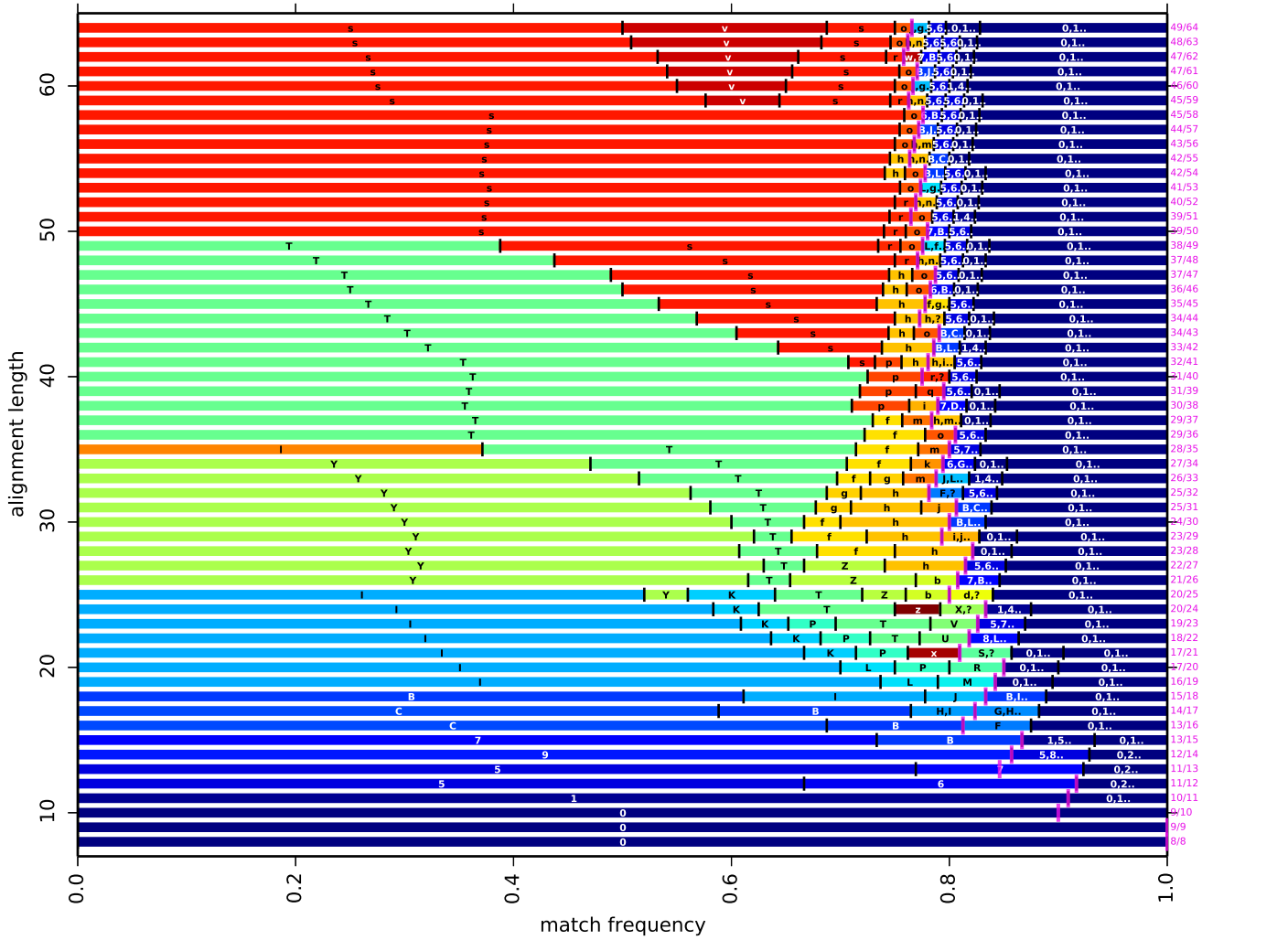
```

```

g = 11010111,11101100101,1101000100111
h = 11010111,11101100101,1110001001101
i = 1110111,1101001011,1101000100010011
j = 11010111,111011000101,1101000100111
k = 11101011,1100101101,111001000001011
l = 11111011,11010100011,11100001010011
m = 11010111,11101100101,110100000010011
n = 11010111,11110010011,1010101000010011
o = 1110111,110101001101,1001100101011
p = 110101011,11100100101,1110010000001011
q = 1110111,11010100011,100100010001011
r = 11010111,11010001011,11010001000010011
s = 110101011,1110000100101,1101001000100011
t = 110101011,11100100101,110011000000001011
u = 111000111,11101010011,1110000101011
v = 1101001011,11010001000101,110001000010001011
w = 11010111,11010001011,1100111001001
x = 11101011,11010010011,11100100000001011
y = 110101011,111100100101,110110000000001011
z = 110101011,111000010101,11010000000010011

```

$$\sum_x \text{Heaviside}(n:3,w:7)$$



```

0 = 1111111,11011111,11110111
1 = 1111111,11010111,11011011
2 = 1111111,11101111,11011011
3 = 1111111,11011011,11000111
4 = 10111111,11101101,11110011
5 = 11010111,1111000111,11001011
6 = 1101111,111101011,1100010111
7 = 11101111,111100011,1101001011
8 = 11011111,111101011,11100110011
9 = 11101111,11011011,11110001011
A = 11011111,111101011,1110011011
B = 11010111,11100110011,111010001011
C = 11011111,111101011,11100010011
D = 11011111,1110100111,1110010011
E = 11010111,111001001101,111100010011
F = 110101111,111100010011,10001001101011
G = 11011111,11100100111,111000101011
H = 110101111,111001011,11101000001011
I = 11101111,11010010111,1110100010011
J = 110101111,11100110011,111010000010011
K = 11101111,11010010111,11101000100011

```

```

L = 110101111,11100110011,111010000001011
M = 110101111,1110011011,11110000000101
N = 11011111,111101011,111001000111
O = 110101111,1110011011,11101000000111
P = 110110111,111000101011,11100100000011
Q = 110101111,11010010011,111100000010011
R = 111010111,1101001011,111100000010011
S = 11101111,11010001011,111000100001011
T = 110101011,111001001011,110100000010011
U = 110101011,111001001011,1110100000001101
V = 111001011,111001001011,1110000000010111
W = 111001011,11100100001101,11010000000100111
X = 111001011,10110000100111,11100100000001011
Y = 110110111,11110101011,1110000101011
Z = 110110111,1110100001011,1101000001000111
a = 110101011,111001001011,11101000000001011
b = 110101011,111001001011,111000010000001011
c = 11101111,110101011,111001001011
d = 110101111,1110001001101,1011000000000010111
e = 110101111,11011001011,11100110011
f = 110101111,11110010011,1101010000010011

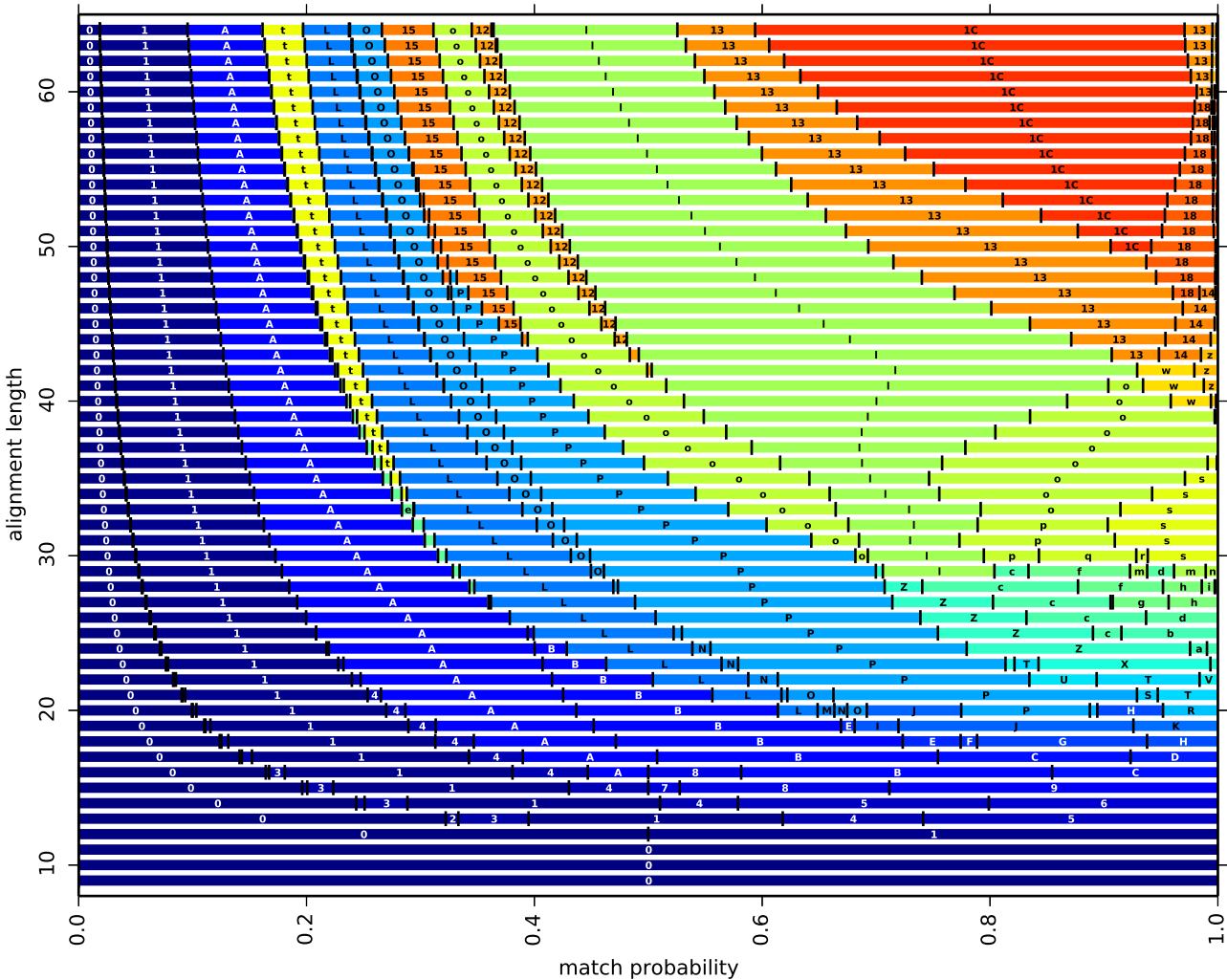
```

```

g = 110101111,11101100101,1101000100111
h = 110101111,11101100101,1110001001101
i = 11011111,11010010111,1101000100010011
j = 110101111,110111000101,1101000100111
k = 111010111,11001011011,11100100001011
l = 11011011,11101000111,1110000100011011
m = 110101111,11101100101,110100000010111
n = 110101111,11110001011,1010110000010011
o = 11101111,110101001101,1001100101011
p = 110101011,111001001011,1110010000001011
q = 11101111,11010010111,1001000100010111
r = 110101111,110100010111,11010001000010011
s = 110101011,11100001001011,1101001000100011
t = 110101011,111001001011,110011000000001011
u = 1011000111,111010011,1110000101011
v = 11010010111,110100010001011,110001000010001011
w = 110101111,11010001011,110011001001
x = 111010111,11010010111,11100100000001011
y = 1101010111,111001001011,11011000000000111
z = 1101010111,111000010101,110100000000100111

```

Bernoulli (n:3,w:8)



```

0 = 11111111,11011111,111110111
1 = 110111111,1111010111,111110101
2 = 11111111,11101111,111010111
3 = 11111111,1110110111,111100111
4 = 111101111,1101110111,11111001011
5 = 110111111,1111101011,11010100111
6 = 111011111,11111010011,110100111011
7 = 111011111,1111101011,11010011111
8 = 110111111,1111101011,111000110111
9 = 111011111,1111110011,111010010111
A = 110111111,1111101011,11100100111
B = 111101111,1101110111,111010010111
C = 111101111,1101110111,1111000010111
D = 110101111,111001101011,11101000100111
E = 111101111,1101110111,1110100010111
F = 111011111,1111010111,1110010010111
G = 110110111,111000101011,1111010001101
H = 111010111,110100110111,11101000010011
I = 101110111,11110110011,1110000101111
J = 111010111,110100110111,1111010001011
K = 111010111,110100110111,11110001001011
L = 111010111,11011110011,1110100010111
M = 110110111,11110011011,1110101000111
N = 111010111,11011110011,11101000010111
O = 111011011,110010100111,1111000101011
P = 111010111,110100110111,111001000010111
R = 111010111,110100110111,1110100001001011
S = 111011111,1110100010111,1110001000010111
T = 111010111,1110100100111,1110010000010111
U = 111010111,1110001010111,111010010000111

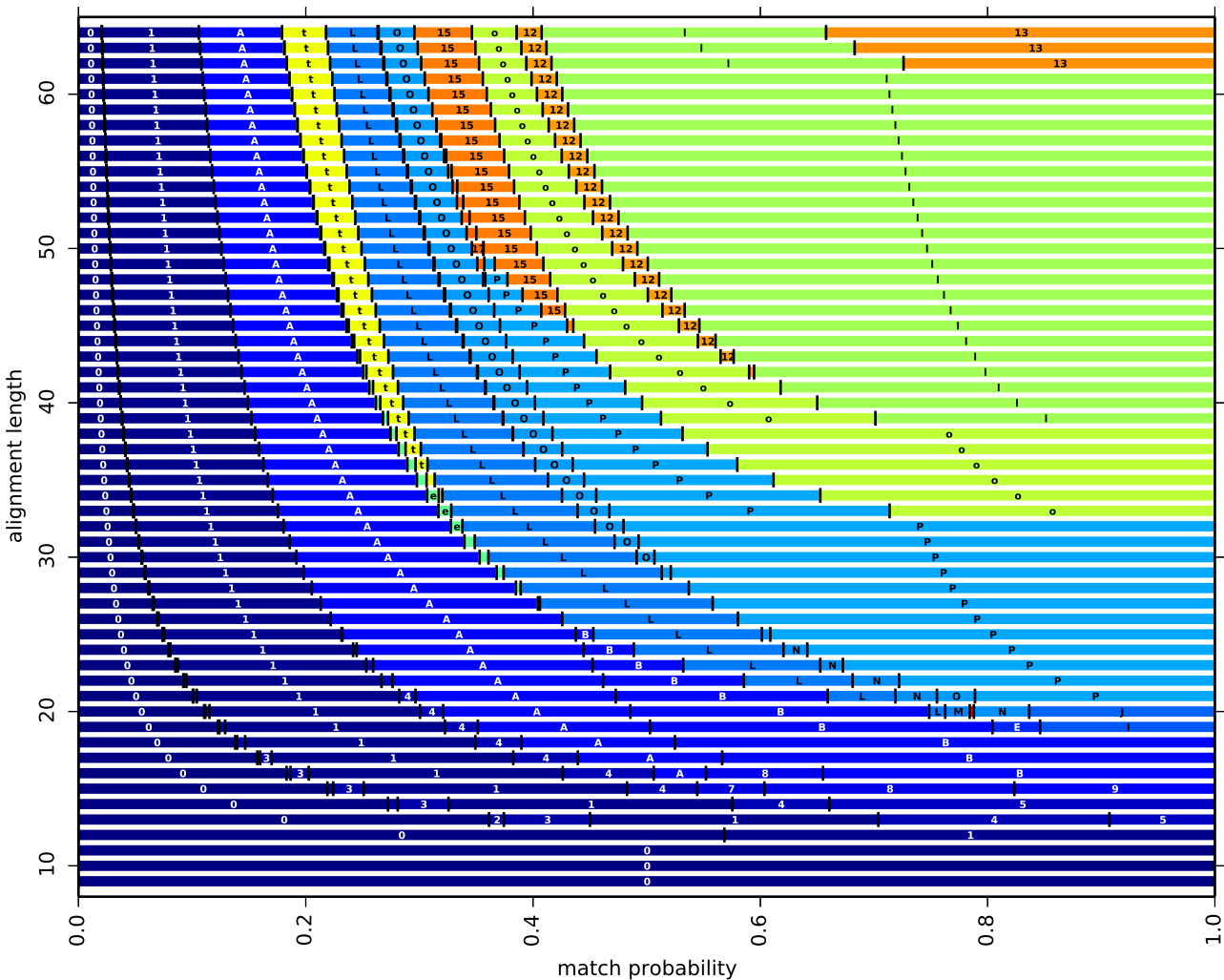
```

```

V = 111010111,1110100100111,11100000001001111
X = 1110110111,1110001000111,11100001001000111
Z = 1101101011,11101000100111,11100100001000111
a = 111010111,1110100100111,110110000000010111
b = 1101010111,1110010010111,1111001000000001101
c = 1101101011,11101000100111,111001000010000111
d = 111010111,1110100100111,1110100000000100111
e = 110111111,11111001011,1101011001111
f = 110111011,111100001001011,110100100010000111
g = 11101001011,110100011001011,1110010000000010111
h = 111011011,11100010010111,11101000001000000111
i = 11100101011,1110100100001011,1110010000000010111
l = 1101101011,11101000100111,111001000010001011
m = 111101111,11100100010111,1100100001000010111
n = 11100101011,1111001000000101,110010010000000010111
o = 111011011,1101001000111,11010100010100111
p = 111011011,1101000101011,11100010001001011
q = 1101101011,111010001001011,1110010000100000111
r = 111011011,11100010010101,11100000010000010111
s = 111010111,11101001000101,110100001101111
t = 1011111011,11101001111,110110101011
w = 111010111,111010001001011,1101001000110011
z = 1110001011,11010001001011,11000100000101011
12 = 1110101011,11101000100111,1110010010100011
13 = 110110111,1110100010001011,1101000100001000111
14 = 1101011011,11010010000111,110100001000100111
15 = 1101111011,1110100010111,110100011000111
18 = 1101011011,111010000001011,11010001000010001011
1C = 1101011011,110100010001011,11010001000010001011

```

\int_0^x Hit Integration (n:3,w:8)



```

0 = 11111111,11011111,11111011
1 = 11011111,1111010111,111110101
2 = 11111111,1111010111,110110111
3 = 11111111,1100110111,1111001111
4 = 11110111,1101110111,11111001011
5 = 11011111,1111101011,11010110011
7 = 11101111,1111010111,1101001111
8 = 11011111,1111101011,11100011011
9 = 11101111,1111110011,11101001011
A = 11011111,1111101011,11100110011
B = 11110111,1101110111,11101001011
E = 11110111,1101110111,111010001011
j = 1011101111,11110110011,1110000101111
j = 1110101111,110100110111,11110100001011

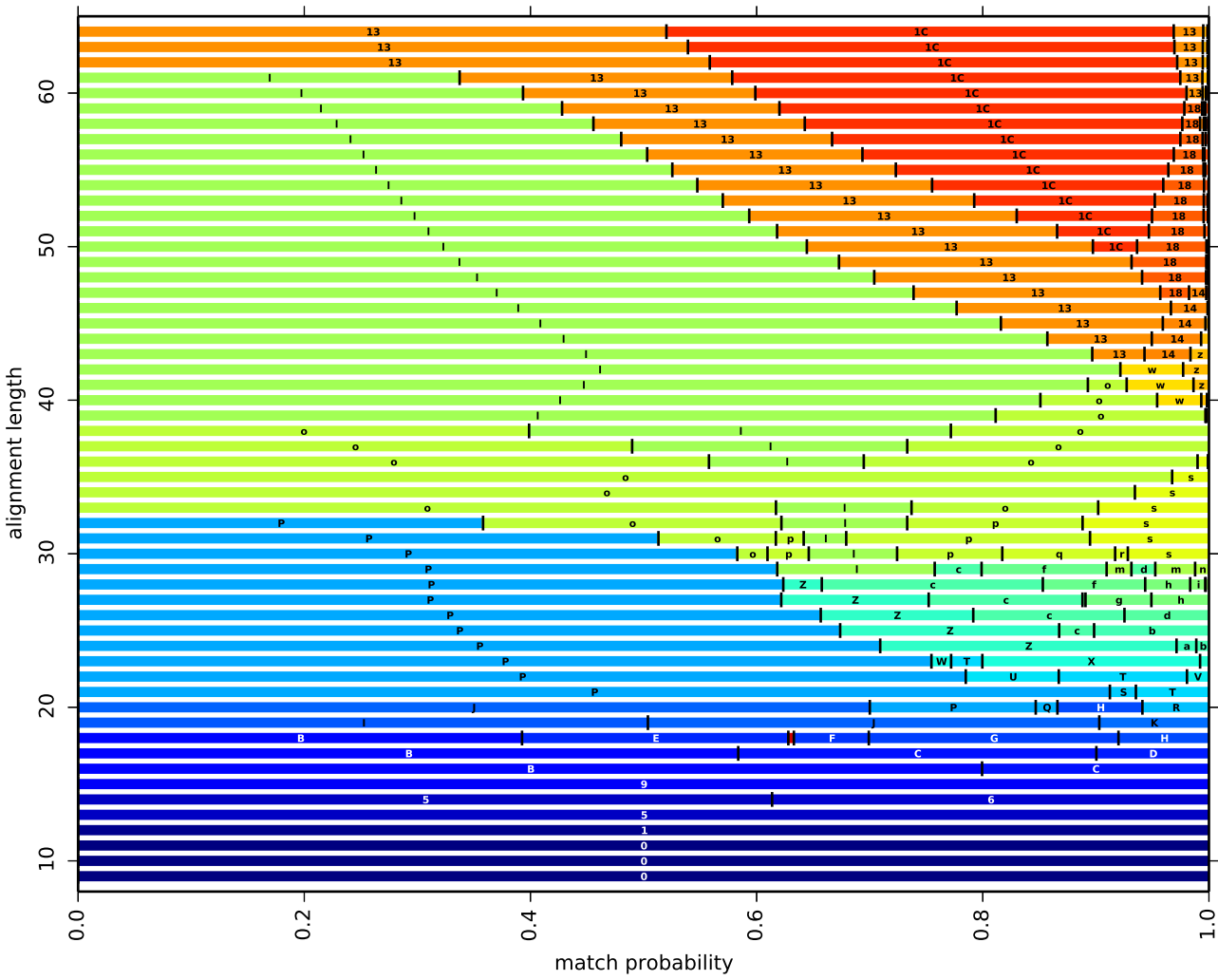
```

```

L = 1110101111,11011110011,1110100010111
M = 1101101111,11110011011,1110101000111
N = 1110101111,11011110011,11101000010111
O = 1110110111,110011001111,1111000101011
P = 1110101111,110100110111,111001000010111
e = 11011111,11111001011,110101100111
l = 1101101011,11101000100111,111001000010001011
o = 1110110111,11010010001111,1101010001010011
t = 1011111011,11101001111,110110101011
12 = 1101101011,11101000100111,1110010010100011
13 = 1101011011,1101000100010111,1101000100001000111
15 = 1101111011,1110100010111,110100011000111
17 = 1011110111,110110010111,111010000100111

```

\int_x^1 Hit Integration (n:3,w:8)



```

0 = 11111111,11011111,111110111
1 = 11011111,111101011,1111101101
5 = 11011111,111101011,11010100111
6 = 11101111,1111010011,110100111011
9 = 11101111,111110011,11101001011
B = 11101111,110110111,11101001011
C = 11110111,110110111,1111000010111
D = 11010111,11001101011,11101000100111
E = 11110111,110111011,1110100010111
F = 11101111,11110101011,1110010010111
G = 11011011,111000101011,1111010001101
H = 11101011,1101001011,111101000010011
I = 10111011,11110110011,1110000101111
J = 11101011,11010011011,11110100001011
K = 11101011,11010011011,11110001001011
P = 11101011,11010011011,111001000010111
Q = 11101011,111100110011,11101000010111
R = 11101011,11010011011,1110100001001011
S = 11110111,111010001011,111000100001011
T = 11101011,111010010011,1110010000010111
U = 11101011,111000101011,1110100100000111
V = 11101011,111010010011,1110000001001111
W = 11101011,111000101011,111000010010011
X = 11101011,1110001000111,11100001001000111

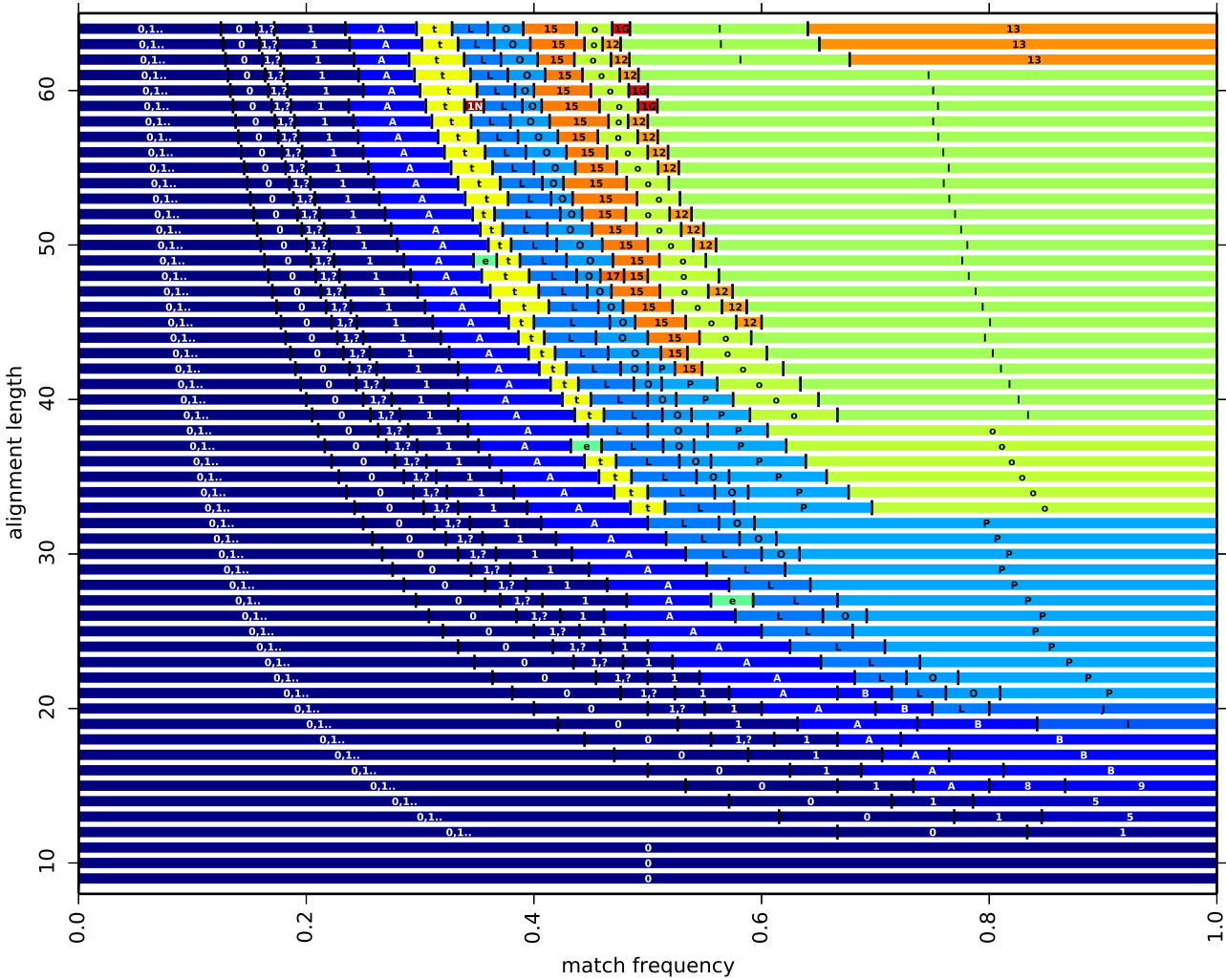
```

```

Z = 1101101011,11101000100111,11100100001000111
a = 11101011,111010010011,110110000000010111
b = 110101011,1110010010011,1111001000000001101
c = 1101101011,1110100010011,111001000010000111
d = 11101011,111010010011,1110100000000100111
f = 11011011,11110000100101,110100100010000111
g = 11101001011,11010001100101,111001000000010111
h = 11101011,111000100101,11101000001000000111
i = 11100101011,111010010000101,111001000000010111
l = 1101101011,1110100010011,111001000010001011
m = 11110111,1110010001011,110010000100001011
n = 11100101011,1111001000000101,11001001000000010111
o = 11101011,110100100011,1101010001010011
p = 11101011,110100010101,11100010001001011
q = 1101101011,11101000100101,1110010000100000111
r = 11101011,111000100101,11010000010000010111
s = 11101011,111011000101,11010000110111
w = 11101011,11101000100101,11010001000110011
z = 1110011011,110100010101,11000100000101011
13 = 1101101011,11010001000101,1101000100001000111
14 = 1101101011,11010010000111,110100001000100111
18 = 1101011011,111010001000101,1101000010000100111
1C = 110101011,11010001000101,11010001000010001011

```


$$\sum_0 \text{Heaviside}(n;3,w;8)$$

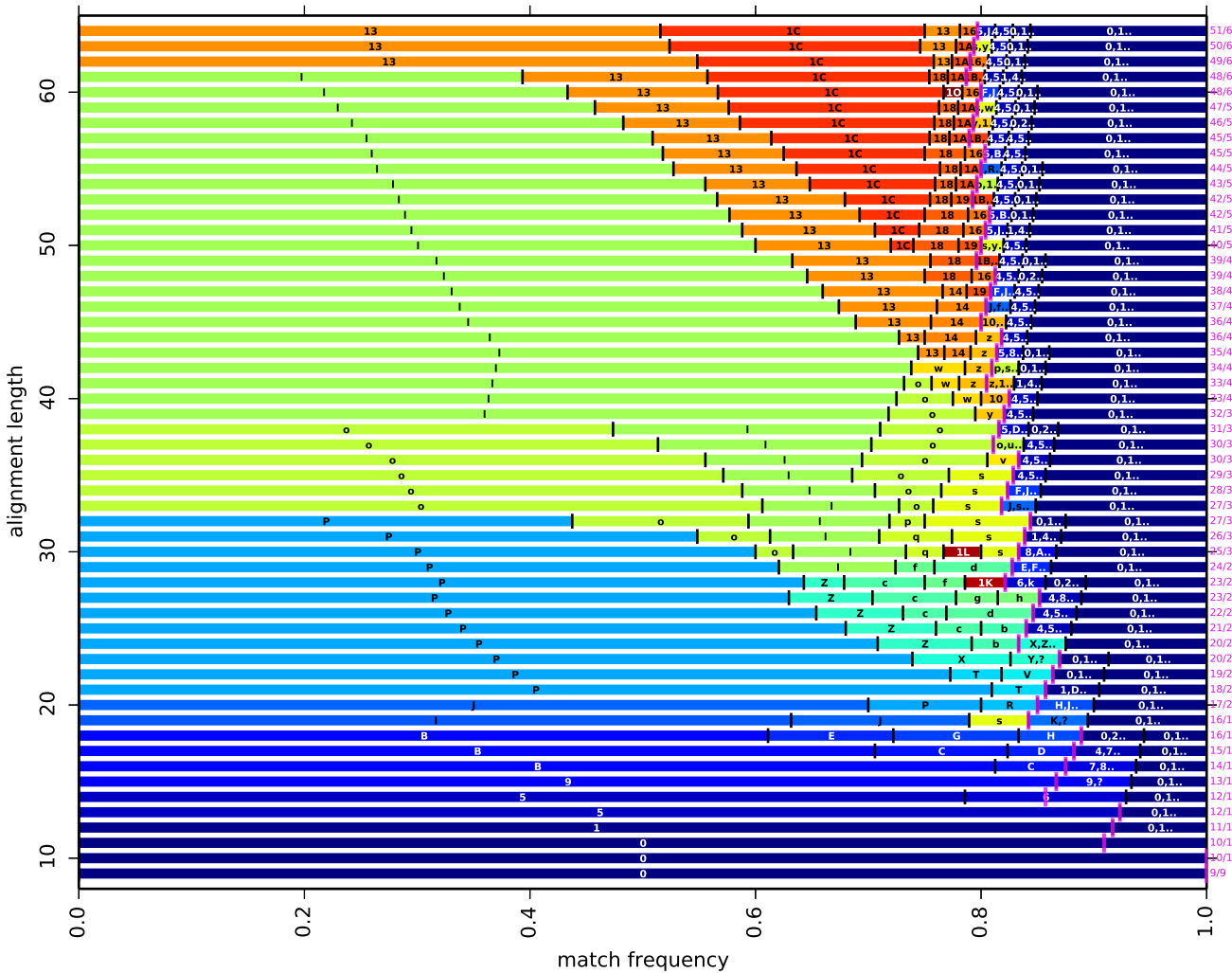


```

0 = 11111111,11011111,111110111
1 = 11011111,111101011,1111101101
2 = 11111111,11110111,111010111
3 = 11111111,110110111,111100111
4 = 11110111,110110111,11111001011
5 = 11011111,1111101011,11010100111
6 = 11101111,11111010011,11010011011
7 = 11101111,1111101011,11100011111
8 = 11011111,1111101011,11100010111
9 = 11101111,1111101011,11101001011
A = 11011111,1111101011,111001100111
B = 11110111,110110111,111010010111
C = 11110111,110110111,1111000010111
D = 11010111,111001101011,11101000100111
E = 11110111,110110111,1110100010111
F = 11101111,11110101011,111000100111
G = 11010111,111000101011,1111010001101
H = 111010111,11010011011,111101000010011
I = 101110111,11110110011,111000010111
J = 111010111,11010011011,11110100001011
K = 111010111,11010011011,1110001001011
L = 111010111,11011110011,1110100010111
M = 11010111,11110011011,1110101000111
N = 111010111,1101110011,11101000010111
O = 111010111,110010100111,11110000101011
P = 111010111,11010011011,111001000010111
Q = 111010111,111100110011,11101000010111
R = 111010111,11010011011,111100001001011
S = 11110111,111010001011,111000100010111
T = 111010111,11101001011,1110010000010111
U = 111010111,11100010111,111010010000111
V = 111010111,11101001011,111000000100111
W = 111010111,111000101011,1110000100100111
X = 111010111,1110001000111,1110000100100111
Y = 111010111,111010010011,1111010000000111
Z = 110101011,1110100010011,11100100001000111
a = 111010111,11101001011,11101000000010111
b = 111010111,1110010010011,1111001000000001101
c = 110101011,1110100010011,111001000010000111
d = 111010111,111010010011,1110100000000100111
e = 11011111,11111001011,110101100111
f = 110110111,1111000010011,1101001000010000111
g = 11101001011,11010001001011,111001000000010111
h = 111010111,1110001001011,1110100001000000111
i = 11100101011,1110100100001011,111001000000010111
j = 111011011,111001000111,11000000010001010111
k = 11101111,11111100101,1101001010111
l = 1101101011,1110100010011,1110010000100001011
m = 11110111,1110010001011,1100100001000010111
n = 11100101011,11110010000001101,110010010000000010111
o = 111011011,1101001000111,1101010001010011
p = 111011011,1101000101011,111000100001001011
q = 1101101011,111010001001011,1110010000100000111
r = 111011011,1110001001011,11101000010000010111
s = 111010111,111011000101,111010000101111
t = 1011111011,1110100111,110110101011
u = 111010111,101101110011,110110000010111
v = 111010111,111010010011,11101000001001011
w = 111010111,111010001001011,1101001000110011
x = 110110111,1110001001011,11010010100000111
y = 101110111,11011001011,11011000010000111
z = 111001011,111000010011,1100100000101011
10 = 111010111,111010011011,11100010000100111
11 = 110101111,111100101011,1110011001011
12 = 1101101011,1110100010011,1110010010100011
13 = 1101010111,110100010001011,1101000100001000111
14 = 1101011011,11010010000111,111000001000100111
15 = 110111011,111010001011,110100011000111
16 = 11101111,11101001011,1100101000100111
17 = 101111011,11011001011,111010000100111
18 = 110101011,1110100010001011,11010001000010001011
19 = 110110111,1101010010011,11010001000010100011
1A = 110101011,110100010011,1110100100000101
1B = 11110111,10110101011,1001100101111
1C = 110101011,110100010001011,11010001000010001011
1D = 11010111,11010001011,110110001000111
1E = 11010111,11010001011,1011000100011001
1F = 111010111,110110001011,1000100001101111
1G = 1101101011,1110100010011,11100100001001011
1H = 11101111,11101101011,1110100010111
1I = 11110111,1101101011,1110100100111
1J = 1101101011,1110100010011,111010000000001011
1K = 11101001011,110100010001011,1110010000000100111
1L = 11011001011,11101000010011,111001000000000101011
1M = 111011011,111000101011,1110001001000111
1N = 110101111,110111001011,111010010011
1O = 1101101011,111010001001011,110010010000100111

```

$$\sum_x \text{Heaviside}(n;3,w;8)$$



```

0 = 11111111,11011111,111110111
1 = 11011111,111101011,1111101101
2 = 11111111,111010111,111010111
3 = 11111111,110110111,1111001111
4 = 11110111,110110111,11111001011
5 = 11011111,1111101011,110101100111
6 = 11010111,11111010011,110100111011
7 = 11101111,1111101011,110100111111
8 = 11011111,1111101011,111000110111
9 = 11101111,1111100111,111010010111
A = 11010111,1111101011,111001100111
B = 11110111,110110111,111010010111
C = 11110111,110110111,1111000010111
D = 11010111,111001101011,11101000100111
E = 11110111,110110111,1110100010111
F = 11101111,1110101011,111001001011
G = 11010111,111000100111,1111010001101
H = 11101011,110100110111,11101000010011
I = 10111011,1110110011,111000010111
J = 11101011,11010011011,11110100001011
K = 11101011,11010011011,11110001001011
L = 11101011,1101110011,110100010111
M = 11010111,11110011011,111010100011
N = 11101011,1101110011,11101000010111
O = 11101011,110010100111,1111000101011
P = 11101011,110100110111,111001000010111
Q = 11101011,111100110011,11101000010111
R = 11101011,11010011011,111010000100111
S = 11110111,11100001011,111001000010111
T = 11101011,111010010111,1110010000010111
U = 11101011,111000101011,1110100000010111
V = 11101011,111010010111,1110000001001111
W = 11101011,111000101011,1110000100100111
X = 11101011,1110001000111,111000010000111
Y = 11101011,111010010011,1111010000000111
Z = 11010101,111010001011,11100100001000111
a = 11101011,111010010111,1101100000010111
b = 11010111,111001001011,11100100000001101
c = 11101011,111010001011,111001000010000111
d = 11101011,111010010111,111010000000010111
e = 11011111,11111001011,11010100111
f = 11011011,11110000100101,110100100010000111
g = 11101001,11010001001011,111001000000010111
h = 11101011,1110001001011,1110100001000000111

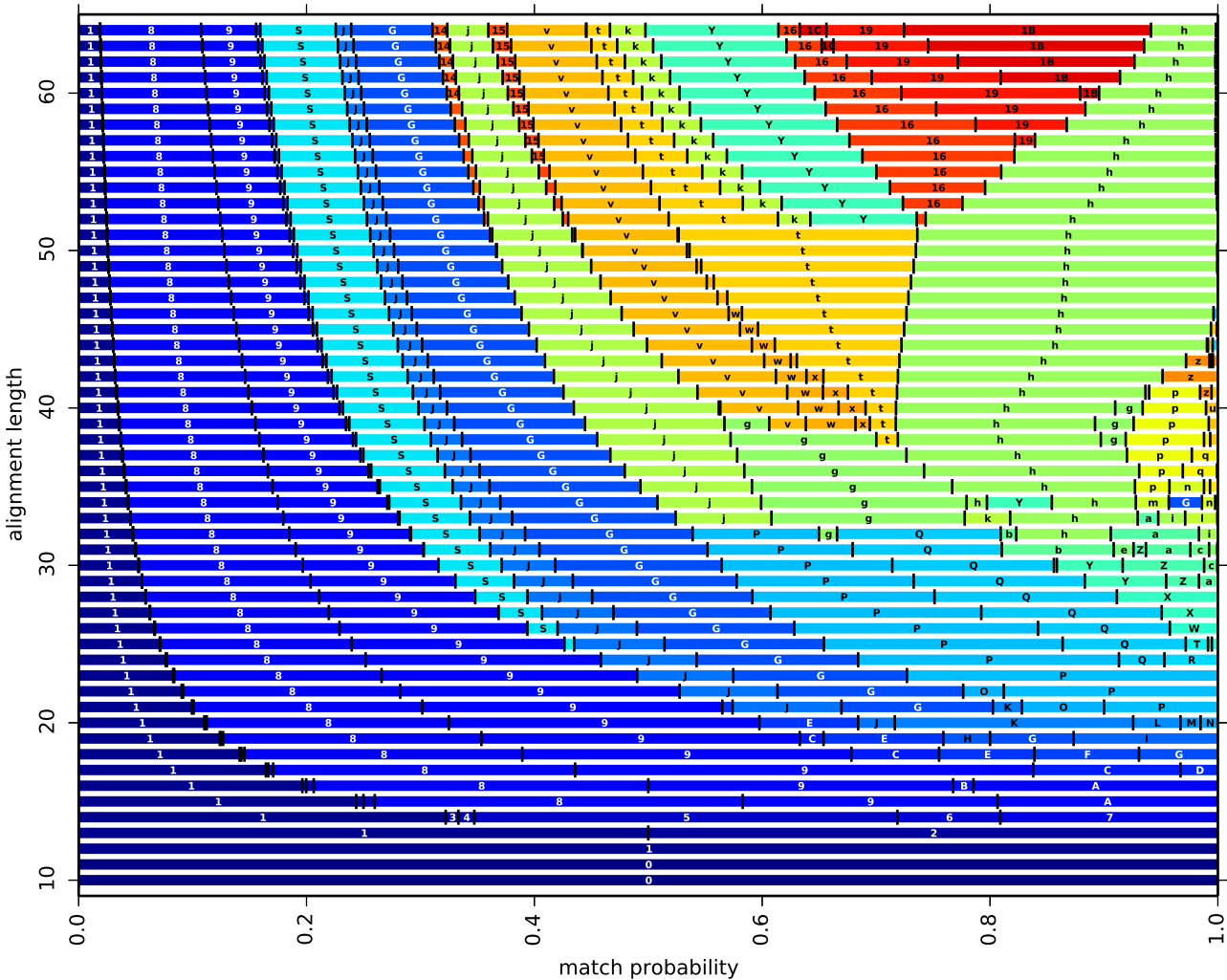
```

```

i = 111001010111,1110100100001011,1110010000000010111
j = 1110110111,11010010001111,110000000010001010111
k = 11101111,11111100101,11010001010111
l = 1101101011,11101000100111,111001000010001011
m = 11110111,11100100010111,1100100001000010111
n = 11100101011,11110010000001101,11001001000000010111
o = 11101011,1101001000111,11010100010100111
p = 11101011,11010001010111,111000100010010111
q = 1101101011,111010001001011,1110010000100000111
r = 111011011,11100010010111,11010000010000010111
s = 111010111,111101000101,11010000110111
t = 101111011,1110100111,110110101011
u = 11101011,101101110011,110110000010111
v = 11101011,111010010011,11101000001001011
w = 11101011,11101000100101,1101001000110011
x = 11011011,1110001001011,11010010100000111
y = 10111011,1101101011,11011000010000111
z = 1110010111,11010001010111,1100010100000101011
10 = 11101011,111010011011,111000100001001011
11 = 11010111,111100101011,1110001001011
12 = 110101011,11101000100111,111001001000011
13 = 110101011,110100010001011,1101000100001000111
14 = 1101011011,11010010000111,110100001000100111
15 = 110111011,1110001001011,1101000110000111
16 = 11101111,111010010111,1100010001000111
17 = 1011110111,110110010111,111010000100111
18 = 110101011,1110100010001011,11010001000010001011
19 = 11011011,110101001011,1101001000010100011
1A = 110101011,11101000100111,1101001000000101
1B = 11110111,10110101011,100110010111
1C = 110101011,110100010001011,1101000000010001011
1D = 11010111,110100010111,11010001000111
1E = 11010111,110100010111,1011000010001101
1F = 11101011,1100100001011,1000100001010111
1G = 110101011,11101000100111,1100100001001011
1H = 11101111,11101101011,1110100010111
1I = 11110111,111010111,111010010111
1J = 110101011,11101000100111,111010000000001011
1K = 11101001011,1101000100010111,1110010000000100111
1L = 11010001011,11101000010011,111001000000000101011
1M = 11101011,1110000101011,1110001000000111
1N = 11010111,110111001011,11110010011
1O = 110101011,11101000100101,110010010000100111

```

Bernoulli (n:3,w:9)



```

0 = 111111111,110111111,1111101111
1 = 111111111,111011111,111110111
2 = 110111111,11111011101,11111010111
3 = 111111111,111011111,11111010111
4 = 111111111,1110101111,11110110111
5 = 110111111,1111001111,11111010111
6 = 111011111,1111101011,11010011111
7 = 111011111,11010111011,11111100111
8 = 110111111,11110111011,11111001111
9 = 111011111,1111101011,111100110111
A = 1101101111,11111001101,111001100111
B = 110111111,11111001011,1101011100111
C = 111101111,1101110111,1111010010111
D = 1110101111,11010011011,111101001011
E = 111011111,1111101011,11101001111
F = 1101101111,111100111011,11110100010111
G = 1101011111,111101001011,111010001100111
H = 111101111,11110110011,11101000101111
I = 1110101111,111100110011,111001010010111
J = 1101110111,11110011011,1110010101111
K = 1011101111,11110110011,111100010010111
L = 1110101111,111100110011,1111010000100111
M = 1110101111,111001101011,11110001000100111
N = 1110101111,11101000110111,111101000010010101
O = 1101101111,111010010111,1111000100010111
P = 1101110111,111101001011,11101000100001111
Q = 1110110111,111101001011,111001000100001111
R = 1110101111,11100100111,111100100000100111
S = 1110101111,11011110011,1110110011011
T = 1110110111,11110010001011,111000100100001111

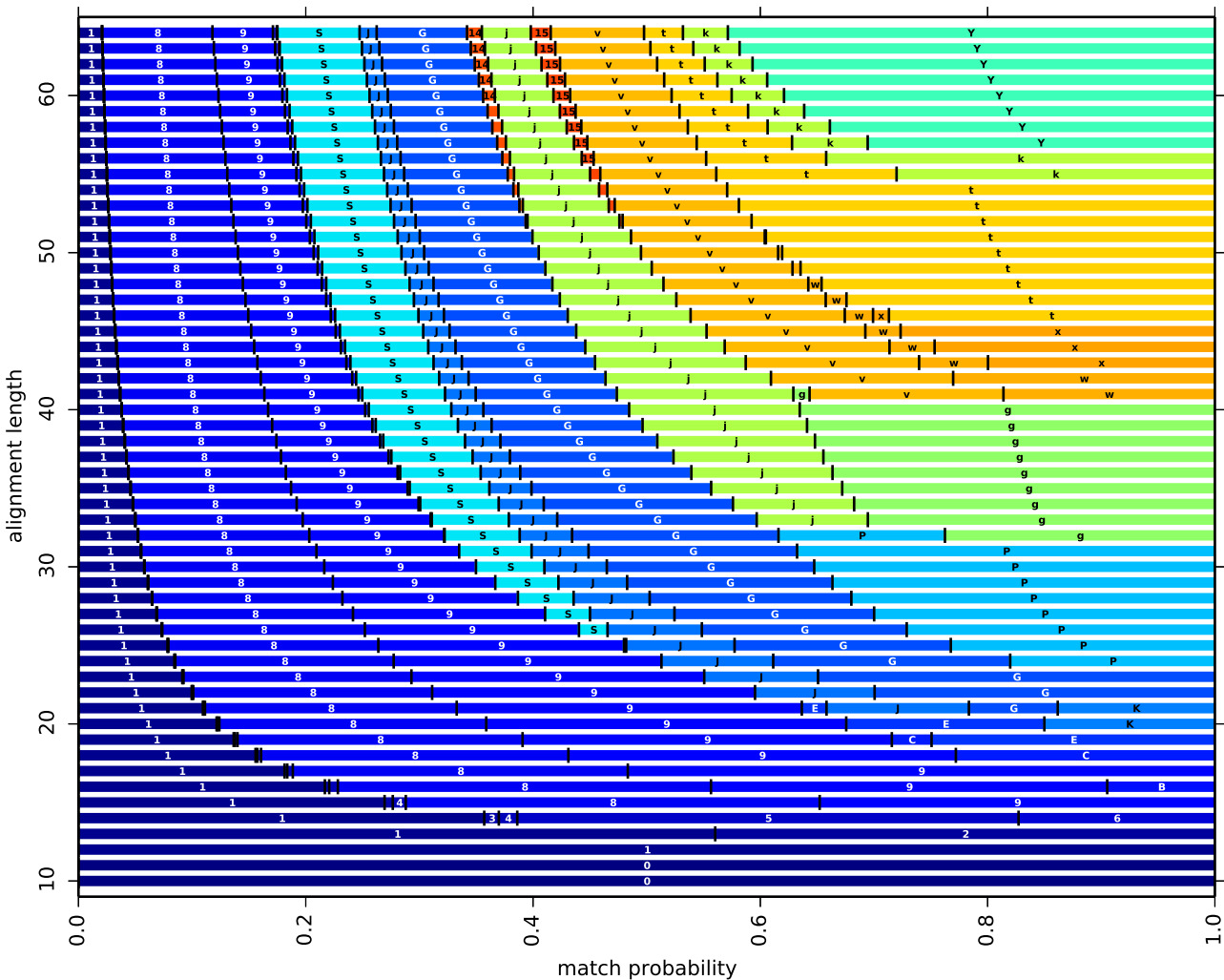
```

```

W = 1110110111,111010010001111,1111001000000010111
X = 111010110111,1111000010010111,1110100010000001111
Y = 111010110111,11101000100010111,111001000001001000111
Z = 111010110111,11101000100010111,1110000010000100010111
a = 1110001010111,111010001000010111,1110100000000100010111
b = 1110110111,1110100100010111,1110001000010010111
c = 111010110111,11101000100010111,11101000001000010010111
e = 11011110111,1110100010010111,1110100100001000111
g = 1110110111,11100101010111,11100010010010111
h = 111010110111,1110100100010111,11101000001001000111
i = 111001010111,111010001000010111,11011000010000000010111
j = 1101110111,1110100100111,11100100010100111
k = 111010110111,11101000100010111,11100100000100100111
l = 111001101011,11100001000010111,11101000000001000010111
m = 1110110111,11011000001010111,111000100010010000111
n = 1110110111,11101010001011,11001000010101111
p = 1101110111,11110100100111,11001000101001111
q = 1110110111,11101001010111,11100100001010111
t = 1110110111,111001100010111,11101000100001000111
u = 1110101111,11011001100111,111010100001001011
v = 111010110111,11100110000111,111001000010010111
w = 111010110111,111010011000111,1110010000100010111
x = 111010110111,1110100010001011,1110010000100010111
z = 1110101111,11101001100111,111001000010010111
14 = 1101110111,110101100011011,11110010100111
15 = 111010110111,111001100100111,1101100001010111
16 = 1110100110111,11101001010001011,11100010000100101011
19 = 1110101100111,110110000100010111,11101000000100000111
1B = 11101010010111,110100010010010111,1110100001000001000111
1C = 1110010110111,111010001000010111,1110010001000001000111

```

\int_0^x Hit Integration (n:3,w:9)



```

0 = 111111111,110111111,1111101111
1 = 111111111,111011111,111110111
2 = 110111111,11111011101,11111101011
3 = 111111111,111101111,11111010111
4 = 111111111,111011111,11110110111
5 = 110111111,11110011111,11111101011
6 = 111011111,11111101011,11010011111
8 = 110111111,1111011011,11111001111
9 = 111011111,11111101011,1110100110111
B = 110111111,11111001011,1101011100111
C = 111101111,1101110111,1111010010111
E = 111011111,11111101011,1110100110111
G = 110101111,1111011001011,111010001100111
j = 1101110111,111110011011,1110001010111

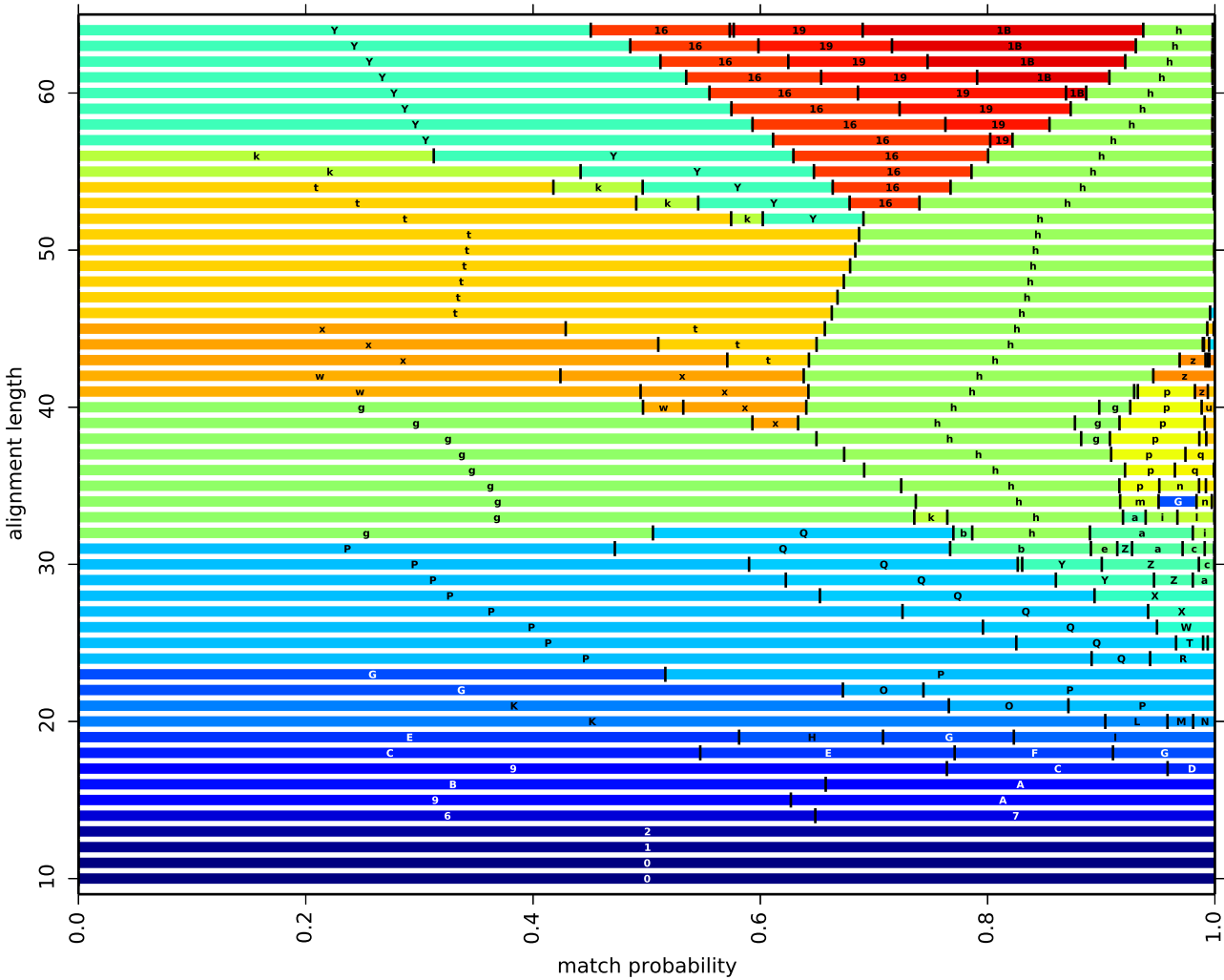
```

```

K = 1011101111,111101100111,111100010010111
P = 11011101111,11110100100111,11101000100001111
S = 1110101111,110111100111,1110110011011
Y = 111010110111,11101000100010111,111001000001001000111
g = 11101101111,11100101010111,11100010010010111
j = 1101110111,11110100100111,11100100010100111
k = 111010110111,11101000100010111,11100100000100100111
t = 11101011011,1101001100010111,11101000100001000111
v = 111010110111,111001101000111,111001000010010111
w = 11101011011,111010011000111,1110010000100010111
x = 111010110111,1110100110001011,1110010000100010111
14 = 11011101111,110101100011011,111100010100111
15 = 111010110111,111001100100111,1101100001010111

```

\int_x^1 Hit Integration (n:3,w:9)



```

0 = 11111111,11011111,1111101111
1 = 11111111,11011111,1111101111
2 = 11011111,1111011101,1111101011
6 = 11101111,1111101011,1101001111
7 = 11101111,1101011011,1111100101
9 = 11101111,1111101011,1110100101
A = 11010111,11111001101,111001101011
B = 11011111,1111001011,110101110011
C = 11101111,1101101111,111101001011
D = 11101111,11010011011,111101001011
E = 11101111,1111101011,111010010111
F = 11011011,11110011011,1111010001011
G = 11010111,111101100101,11101000110011
H = 11110111,11101110011,11101000101111
I = 11101111,111100110011,11100101001111
K = 10110111,11110110011,11110001001011
L = 11101011,111100110011,1111010000100111
M = 11010111,111001101011,11110001000100111
N = 11101011,110100010111,11110110000100101
O = 11011011,111010010111,1111000100010111
P = 11011011,1111010010011,11101000100001111
Q = 11011011,1111010010011,111001000100001111
R = 11110111,111001101011,111100100000100111
T = 11101011,11110010001011,111000100100001111
W = 11101011,11101001000111,111100100000010111

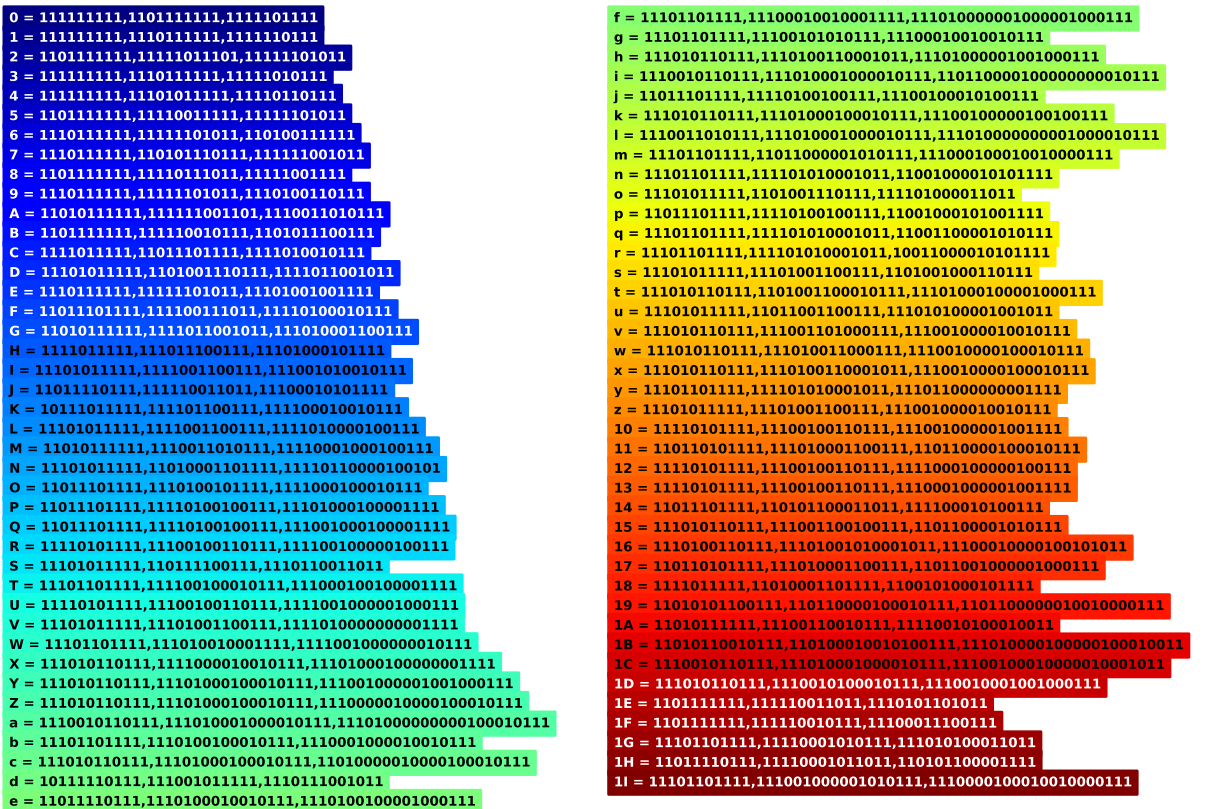
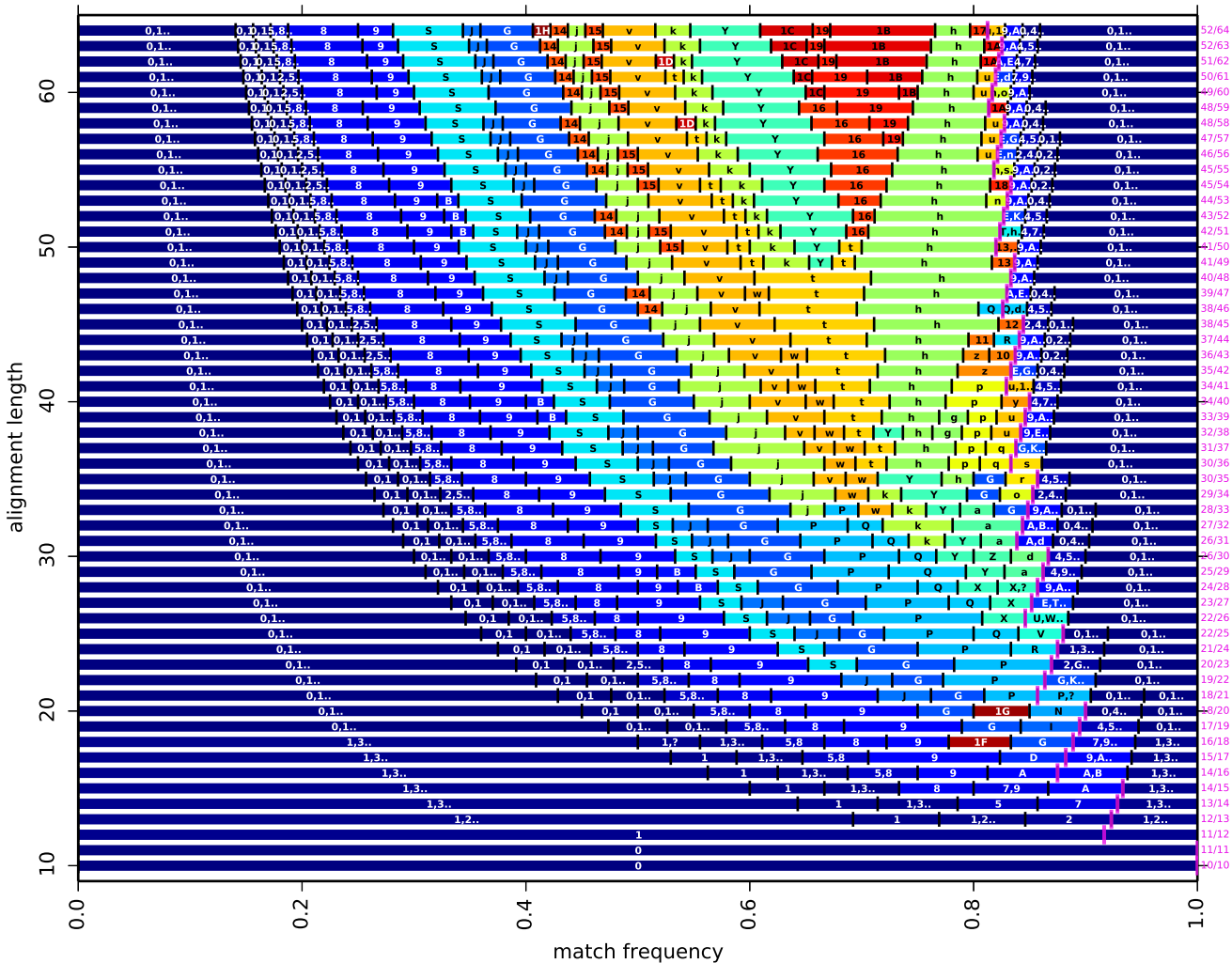
```

```

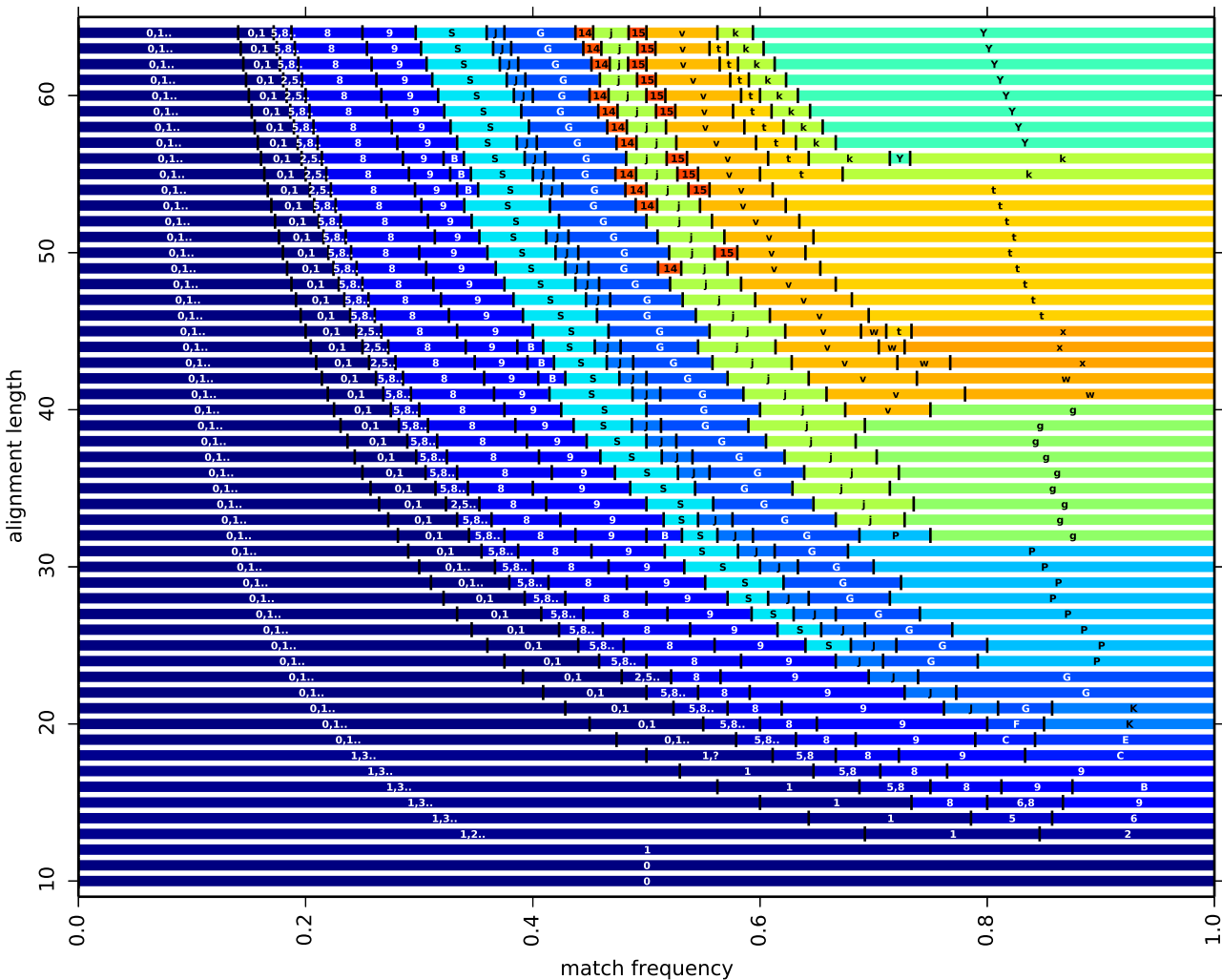
X = 1110101011,111100001001011,11101000100000001111
Y = 1110101011,1110100010001011,111001000001001000111
Z = 1110101011,1110100010001011,1110000010000100010111
a = 11100101011,11101000100001011,1110100000000100010111
b = 111011011,111010010001011,1110001000010010111
c = 1110101011,1110100010001011,111010000010000100010111
e = 1101111011,111010001001011,1110100100001000111
g = 11101011,1110010101011,11100010010010111
h = 1110101011,1110100110001011,11101000001001000111
i = 11100101011,11101000100001011,11011000010000000010111
k = 1110101011,1110100010001011,11100100000100100111
l = 111001101011,11101000100001011,1110100000000100010111
m = 11101011,1110100000101011,111000100010010000111
n = 11101011,111101010001011,110010000101010111
p = 11011011,1111010010011,11001000101001111
q = 11101011,111101010001011,11001100001010111
t = 1110101011,110100110001011,11101000100001000111
u = 11101011,11100110011,111010100001001011
w = 1110101011,11101001100011,1110010000100010111
x = 1110101011,1110100110001011,1110010000100010111
z = 11101011,1110100110011,111001000010010111
16 = 11101001011,11101001010001011,11100010000100101011
19 = 11101010011,11101000010001011,1101100000010010000111
1B = 1110101001011,1110000100101011,11101000010000100010011

```

Dirac (n:3,w:9)



$$\sum_0^x \text{Heaviside}(n:3,w:9)$$

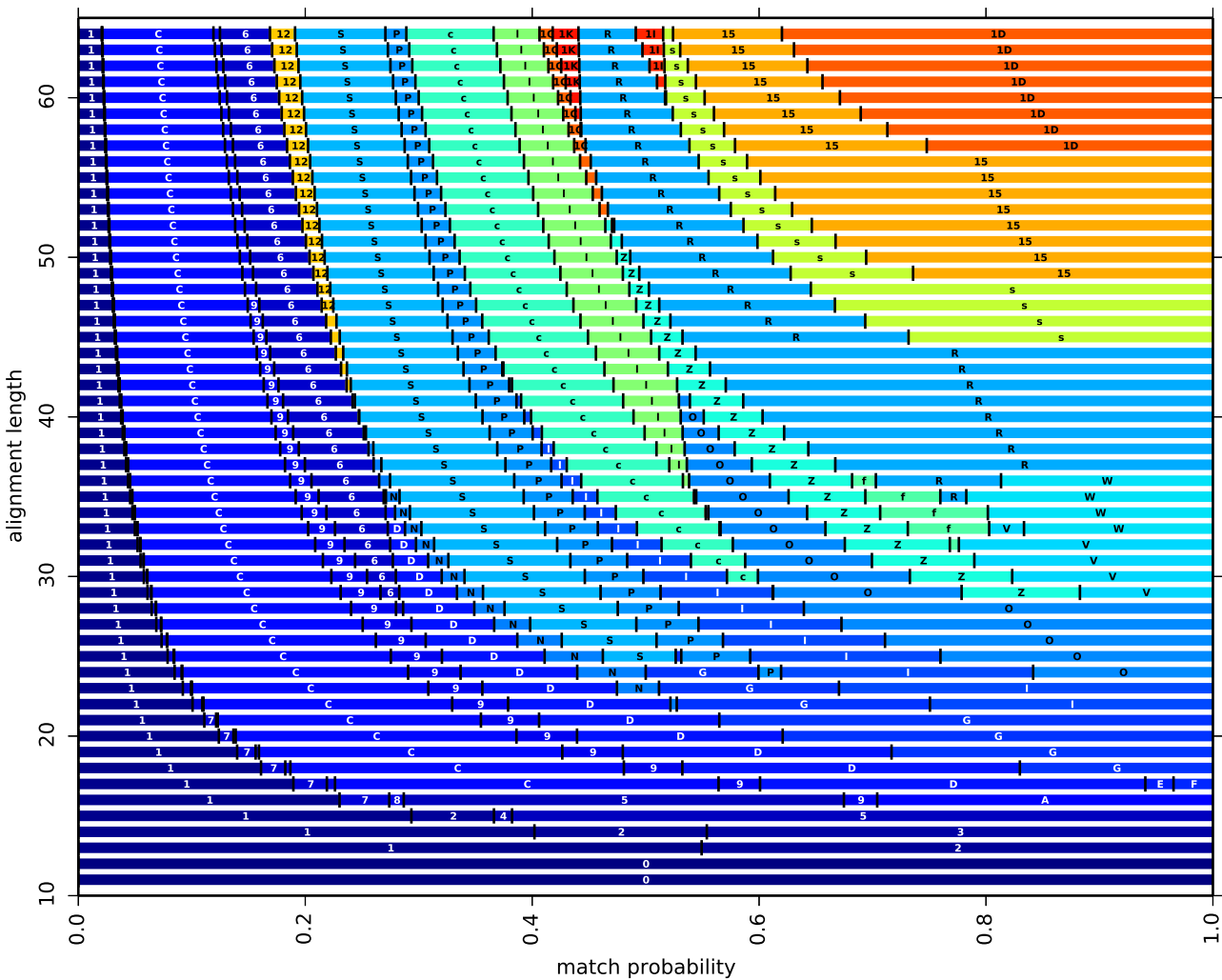


```

0 = 111111111,110111111,1111101111
1 = 111111111,110101111,1111101011
2 = 110111111,1111011101,11110101011
3 = 111111111,110101111,11111010111
4 = 111111111,110101111,11110101011
5 = 110111111,1111001111,1111101011
6 = 111011111,1111101011,11010011111
7 = 111011111,1101011011,111111001011
8 = 110111111,1111010111,11110010111
9 = 111011111,1111101011,111010010111
A = 110101111,1111100101,111001010111
B = 110111111,1111001011,110101100111
C = 111101111,1101101111,111010001011
D = 111010111,1101001111,111101001011
E = 111011111,1111101011,1110100100111
F = 110110111,1111011011,1110100010111
G = 110101111,111101001011,11101000100111
H = 111101111,1101110011,1110100010111
I = 111010111,1111001011,11110010010111
J = 110111011,1111001011,1110001010111
K = 101110111,11110110011,1111000100111
L = 111010111,11110010011,111101000010011
M = 110101111,11100101011,1111000100010011
N = 111010111,11010001011,1111010000100101
O = 110110111,11101001011,111000100010111
P = 110110111,111101001011,1111000100001111
Q = 110110111,111101001011,111001000100001111
R = 111101011,111001001011,111100100001000111
S = 111010111,1101110011,1110100101011
T = 111010111,11110010001011,111000100100001111
U = 111101011,111001001011,1111001000001000111
V = 111010111,1110100110011,111101000000001111
W = 111010111,111010001011,1111001000000010111
X = 111010111,11100001001011,1110100010000001111
Y = 111010111,111010001001011,11100100001001000111
Z = 1110101011,1110100010001011,111000010000100010111
a = 11100101011,11101000100001011,1110100000000100010111
b = 111010111,111010010001011,1110001000010010111
c = 1110101011,1110100010001011,1101000010000100010111
d = 101111011,11100101111,1110111001011
e = 110111011,111010001001011,1110100100001000111
f = 111011011,1110001001000111,11101000000100001000111
g = 111010111,1110010101011,11100010010010111
h = 111010111,111010010001011,1110100001001000111
i = 11100101011,11101000100001011,11101000010000000010111
j = 111011011,111010010011,11100100010100111
k = 1110101011,1110100010001011,11100100000100100111
l = 111001101011,11101000100001011,11101000000001000010111
m = 111011011,110110000101011,11100010001010000111
n = 111010111,1111010001011,1100100001010111
o = 111010111,11010011011,1111010000101011
p = 110110111,111101001011,11001000101001111
q = 111010111,111101010001011,11001100001010111
r = 111010111,111101010001011,1001100001010111
s = 111010111,111010010011,1101001001010111
t = 1110101011,110100110001011,11101000100001000111
u = 111010111,110100110011,111010100001001011
v = 1110101011,11100110100011,111001000010010111
w = 1110101011,11101001100011,1110010000100010111
x = 1110101011,111010001000101,1110010000100010111
y = 111010111,11110101000101,1110110000000010111
z = 111010111,111010010011,111001000010010111
10 = 111101011,111001001011,111001000001001111
11 = 1101101011,1110100010011,110110000100010111
12 = 111101011,11101001011,1111000100000100111
13 = 111101011,111001001011,1110001000000100111
14 = 110111011,110101000101,111100010100111
15 = 1110101011,1110011001011,1101100001010111
16 = 1110101011,111010011000101,1110010000100101011
17 = 110110011,1110100010011,11011001000001000111
18 = 111101111,110100011011,11001010000101111
19 = 11010101011,1101100001001011,1101100000010010000111
1A = 110101111,1110011001011,11110010100010011
1B = 1101011001011,110100010001011,1110100001000010001011
1C = 11100101011,11101000100001011,11100100010000010001011
1D = 1110101011,1110010001011,1110010001001000111
1E = 110111111,111100101011,111010101011
1F = 110111111,1111001011,11100011100111
1G = 111010111,1111000101011,111010100011011
1H = 110111011,1111000101011,110101100001111
1I = 111010111,1110010000101011,1110000100010010000111

```


\int_0^x Hit Integration (n:3,w:10)



```

0 = 1111111111,1101111111,11111101111
1 = 1111111111,1110111111,11111101111
2 = 1111111111,1101111111,111111010111
3 = 1111011111,1100111111,11111101011
4 = 1111111111,11101101111,11111101011
5 = 1111011111,11011010111,11111101011
6 = 1110111111,110111100111,1111110011011
7 = 1111111111,1111101111,111011110111
8 = 1111111111,11101110111,111110011111
9 = 1101111111,11111011011,1111101001111
A = 1110111111,11111010111,11101001101111
C = 1101111111,11111011011,111111001111
D = 1111011111,11111010111,11101001101111
E = 1110111111,11111010111,111010011001111
F = 1110111111,111110010111,111001011100111
G = 1111101111,111011110111,11110000101111
I = 11011110111,111110010111,1111000101001111
N = 1110111111,1101111100111,11110100101111

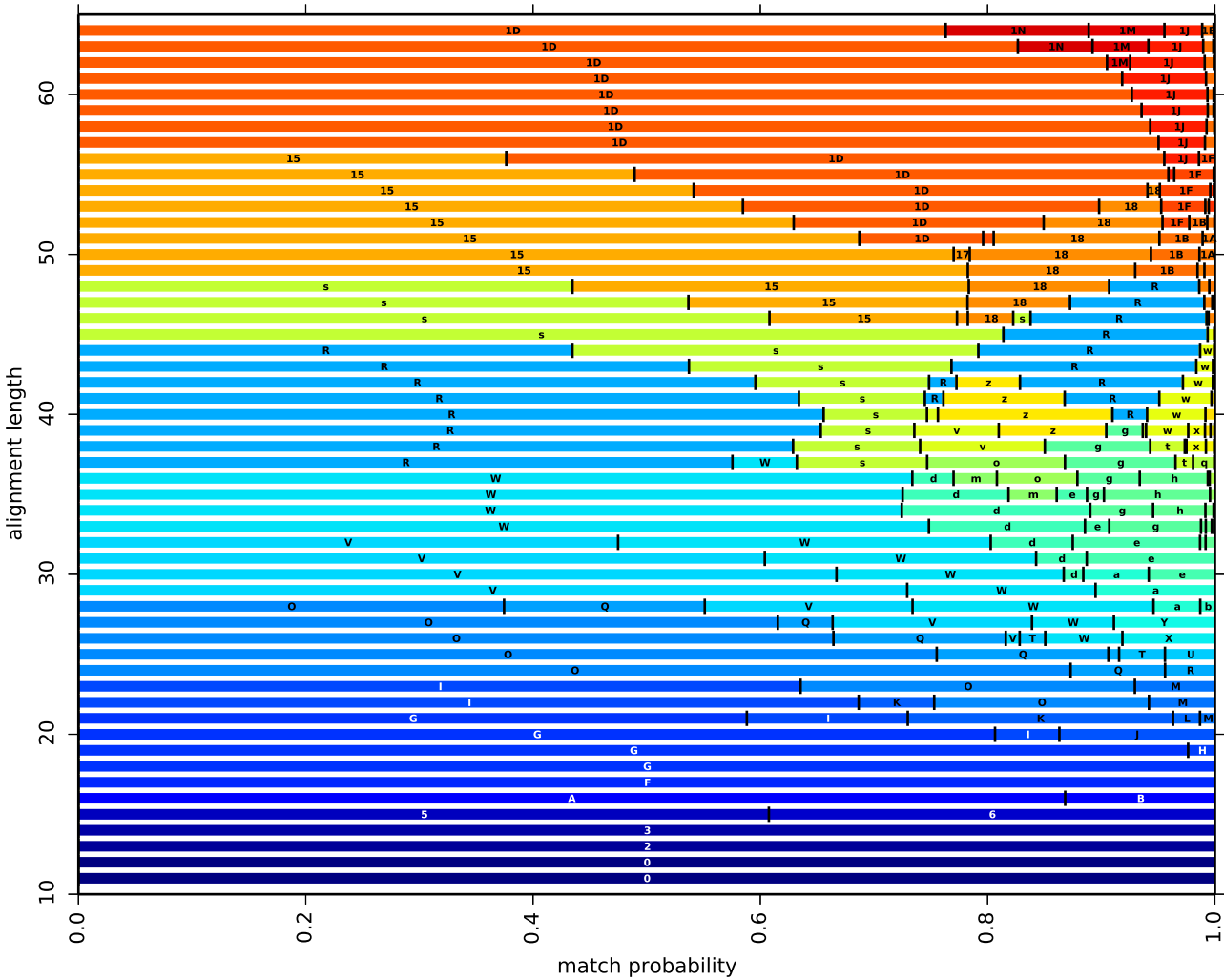
```

```

O = 111011101111,1111101001010111,11101001100001111
P = 110111101111,1111010111011,111011001001111
R = 111011010111,1110101100100111,1110100010000110111
S = 11011110111,111101001111,11100111011011
V = 11101110111,1110100101001111,1111000100010010111
W = 11101110111,1110010101000111,11110000100010010111
Z = 11101110111,111010010101011,111100100100010111
c = 110111110111,11101110010111,1111000101011011
f = 11101110111,111010010101011,1111000100010010111
l = 110111110111,11011100100111,11110001010010111
s = 1110110110111,1110010101000111,11110001001001000111
12 = 101110111111,111001111011,111111001011
15 = 111011010111,111010001010011011,111010010000001100111
1C = 111011110111,111101100101011,111010001001001111
1D = 111010100110111,111001011000101011,11101001000000010010111
1I = 1101111010111,1110010010010111,11100100001010001111
1K = 1110110110111,1110001101010111,1110101000001001111

```

\int_x^1 Hit Integration (n:3,w:10)



```

0 = 1111111111,1101111111,1111110111
2 = 1111111111,1101111111,1111110111
3 = 1111011111,1100111111,1111110111
5 = 1111011111,1101110111,1111110111
6 = 1110111111,110111100111,111110011011
A = 1110111111,111111010111,11101001101111
B = 110111101111,111101001111,11101111010011
F = 1110111111,111111001011,111001011100111
G = 1111101111,111011110111,111101000101111
H = 111101101111,110010110111,11110100010111
I = 110111101111,111100110111,1111000101001111
J = 111011011111,11110011101011,1111010000110111
K = 111011011111,11100111010111,1111010000110111
L = 111011011111,111100110100111,1111010000110111
M = 111101101111,11100101010111,111101000000110111
O = 111011101111,111101001010111,11101001100001111
Q = 111011101111,111110100100111,111001000100101111
R = 111011011111,111001100100111,1110100010000110111
T = 111101011111,111011001100111,1110101000001001111
U = 111101011111,111011001100111,1111010000010010111
V = 111011101111,111010010100111,1111000100010010111
W = 111011101111,111010010100111,11110000100010010111
X = 111011011111,1110100100100111,11110010001000100111
Y = 111101011111,111011001100111,11110001000001001111
a = 111011101111,11110100010010111,111010010000100001111

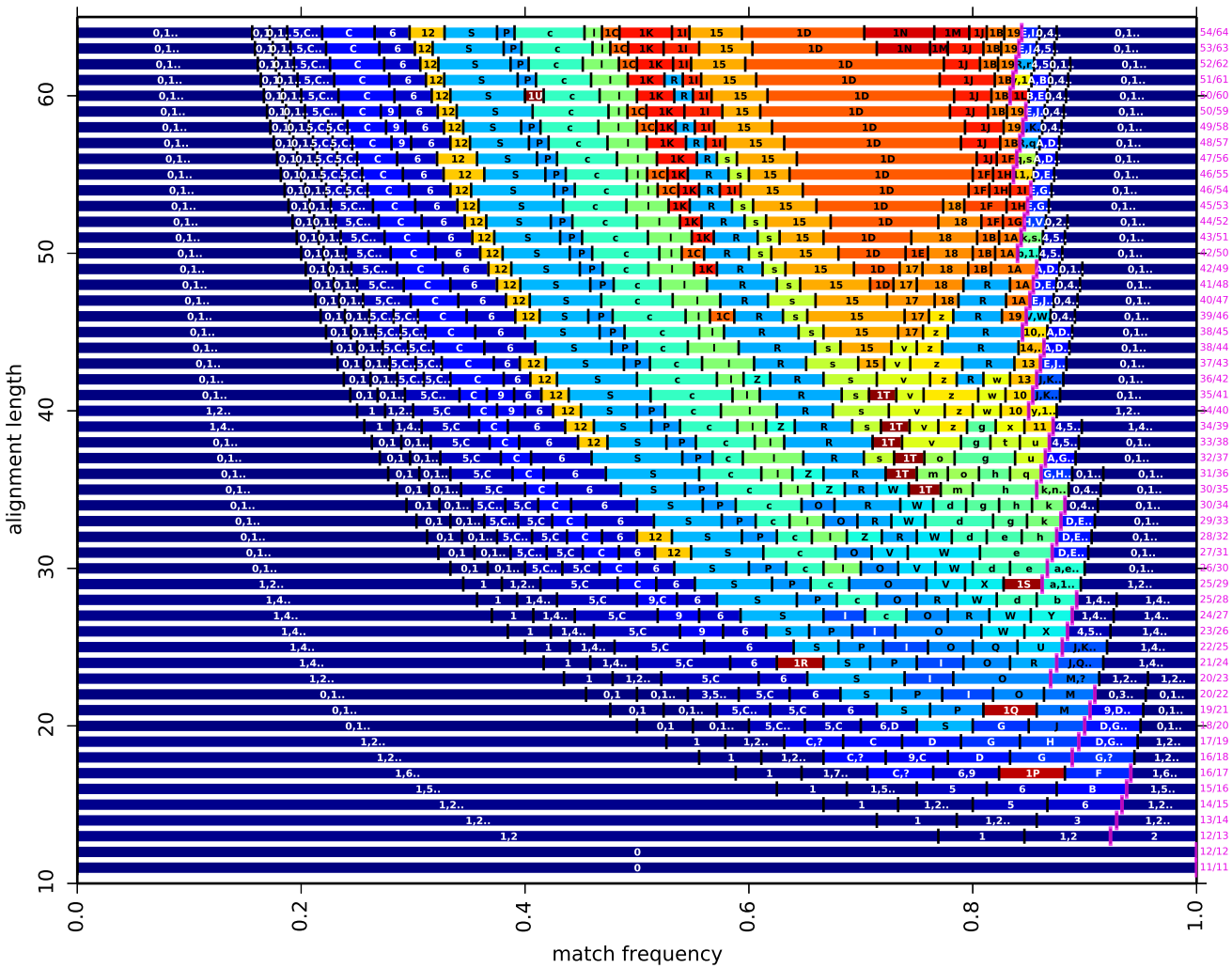
```

```

b = 111101011111,111011001100111,111100100000010001111
d = 111011101111,11110100100010111,1110100010000100001111
e = 11101101101111,111100100100010111,11101000100001000001111
g = 11101101101111,1110110000100010111,111010001000000100010111
h = 11101101001111,1110101001000100111,1110010001000001000010111
m = 11101101101111,111100100100010111,1110100010000100001111
o = 11101101101111,111100100100010111,11101000100001000010111
q = 111011101111,110100111010111,1111101000011011
s = 11101101101111,11100101010001111,111100010010010001111
t = 111011101111,1110100101001111,111010001000100001111
v = 11101101011111,111100100100010111,11101000100001000010111
w = 111011101111,11101000100101111,111010010100100100111
x = 111011101111,111010110100011011,11101000011010111
z = 11101101101111,11101001100010111,11101000100001000011011
1A = 111011011111,1110100010010111,111100001000100100111
1B = 1110110101111,1110101100100111,1110100000100101011
1D = 1110101001101111,111001011000101011,1110100100000010010111
1F = 1110110101111,1110101100100111,1110101000001000011011
1J = 11101001010111,111010100010001011,111010010000000100010111
1M = 11101001010111,111010100010001011,111010001001000010001011
1N = 11101001010111,1110110001010001011,1110100010000100100010111

```

Dirac (n:3,w:10)



```

O = 1111111111,1101111111,1111110111
1 = 1111111111,1101011111,1111110111
2 = 1111111111,1101011111,1111010111
3 = 1111011111,1100111111,1111110101
4 = 1111111111,1101101111,1111110111
5 = 1111011111,1101011111,1111010111
6 = 1110111111,1101110011,1111110011
7 = 1111111111,1111010111,1110110111
8 = 1111111111,1101110111,1111001111
9 = 1101111111,1111010101,1111010011
A = 1110111111,1111010111,1110001011
B = 1101111011,1111010011,1101111000
C = 1101111111,1111010111,1111001111
D = 1111011111,1111110101,1110010111
E = 1110111111,1111010111,1110010011
F = 1110111111,1111000111,1110001011
G = 1111011111,1110110111,1110100011
H = 1111010111,1100101101,1111010001
I = 1101110111,1111001011,1111000101
J = 1110101111,1110011010,1111010001
K = 1110101111,1110011011,1111000010
L = 1110101111,1110010101,1111010001
M = 1111010111,1110010101,1111010000
N = 1110111111,1101110011,1110100101
O = 1110110111,1111010010,1111010001
P = 1101110111,1111010101,1110100101
Q = 1110110111,1111010001,1111000010
R = 1110101011,1110101001,1110001001
S = 1101111011,1110010111,1110011011
T = 1111010111,1110100101,1110100001
U = 1111010111,1110100101,1110010000
V = 1110110111,1110100101,1111000101
W = 1110110111,1110100101,1111000001
X = 1110101011,1110010001,1111000001
Y = 1111010111,1110100101,1111000100
Z = 1110110111,1110010101,1111000101
a = 1110110111,1110001001,1110100000
b = 1111010111,1110100101,1110010000
c = 1101110111,1101100101,1111000101
d = 1110110111,1110100101,1110001000
e = 1110101011,1110010001,1111000000
f = 1110110111,1110010101,1111000101
g = 1110101011,1110100010,1111000000
h = 1110101001,1110101000,1111000000
i = 1110101001,1110000100,1111101000
j = 1110101001,1110010001,1111010000
k = 1110101111,1111100110,1110010101

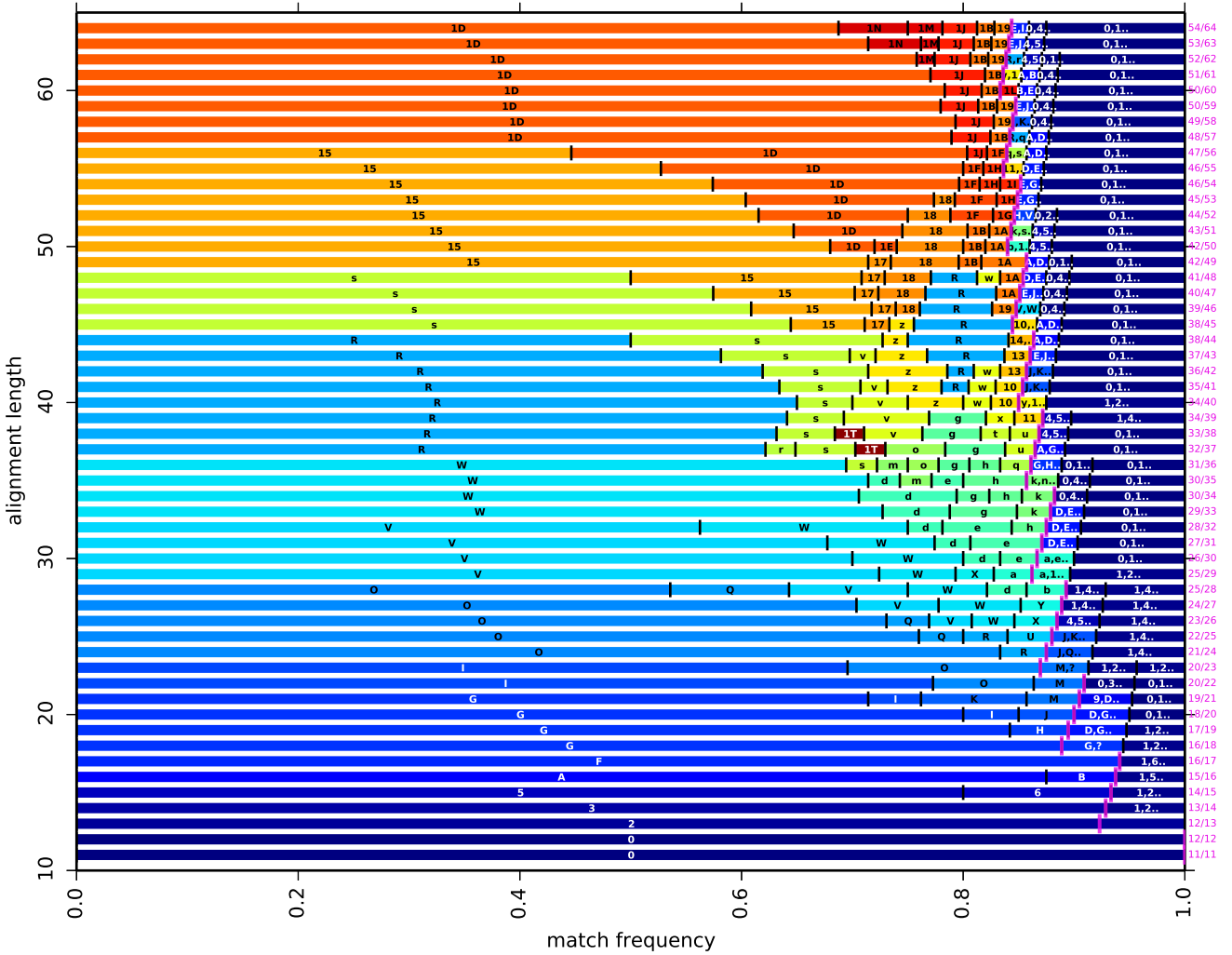
```

```

l = 1101111011,1101110010,1111000101
m = 1110101011,1110001000,1111010000
n = 1110101011,1110001000,1111100000
o = 1110101011,1110001000,1111010000
p = 1110101001,1110101000,1111001000
q = 1110110111,1101001101,1111010000
r = 1110101011,1101010001,1110100000
s = 1110101011,1110010100,1111100001
t = 1110110111,1110010100,1111010000
u = 1110101111,1110110001,1101000001
v = 1110101011,1110010001,1110100000
w = 1110110111,1110100010,1111010001
x = 1110110111,1101010001,1101000010
y = 1110101111,1101010011,1101000010
z = 1110101011,1110100100,1111010000
10 = 1110101011,1110101000,1111010001
11 = 1110101011,1111001100,1110100000
12 = 1011101111,1110011011,1111110010
13 = 1110110111,1110100001,1110010001
14 = 1110101111,1110100101,1110010000
15 = 1110101011,1110010010,1110100000
16 = 1110110111,1110100001,1110100001
17 = 1110101011,1101001000,1111000000
18 = 1110101011,1101001000,1111000000
19 = 1110110111,1110010001,1101001000
1A = 1110110111,1110010001,1111000000
1B = 1110101011,1110101000,1110100000
1C = 1101110111,1110100101,1110100100
1D = 1110101011,1110010001,1110100000
1E = 1110101011,1110100001,1110010000
1F = 1110101011,1110101000,1111010000
1G = 1110110111,1110010001,1110100000
1H = 1110110111,1110010001,1110000000
1I = 1110110111,1110010001,1110010001
1J = 1110101011,1110100010,1110010001
1K = 1110101011,1110001001,1110100000
1L = 1110101111,1111001001,1110100000
1M = 1110001010,1110100010,1110100000
1N = 1110010101,1110100010,1110000000
1O = 1110110111,1110010101,1110100010
1P = 1110110111,1110010111,1110110001
1Q = 1110101111,1110010101,1110100010
1R = 1101111111,1111001011,1110101001
1S = 1110110111,1110010001,1111010000
1T = 1110101011,1110100100,1111010000
1U = 1110110111,1101100101,1111001010

```


$$\sum_x \text{Heaviside}(n;3,w;10)$$



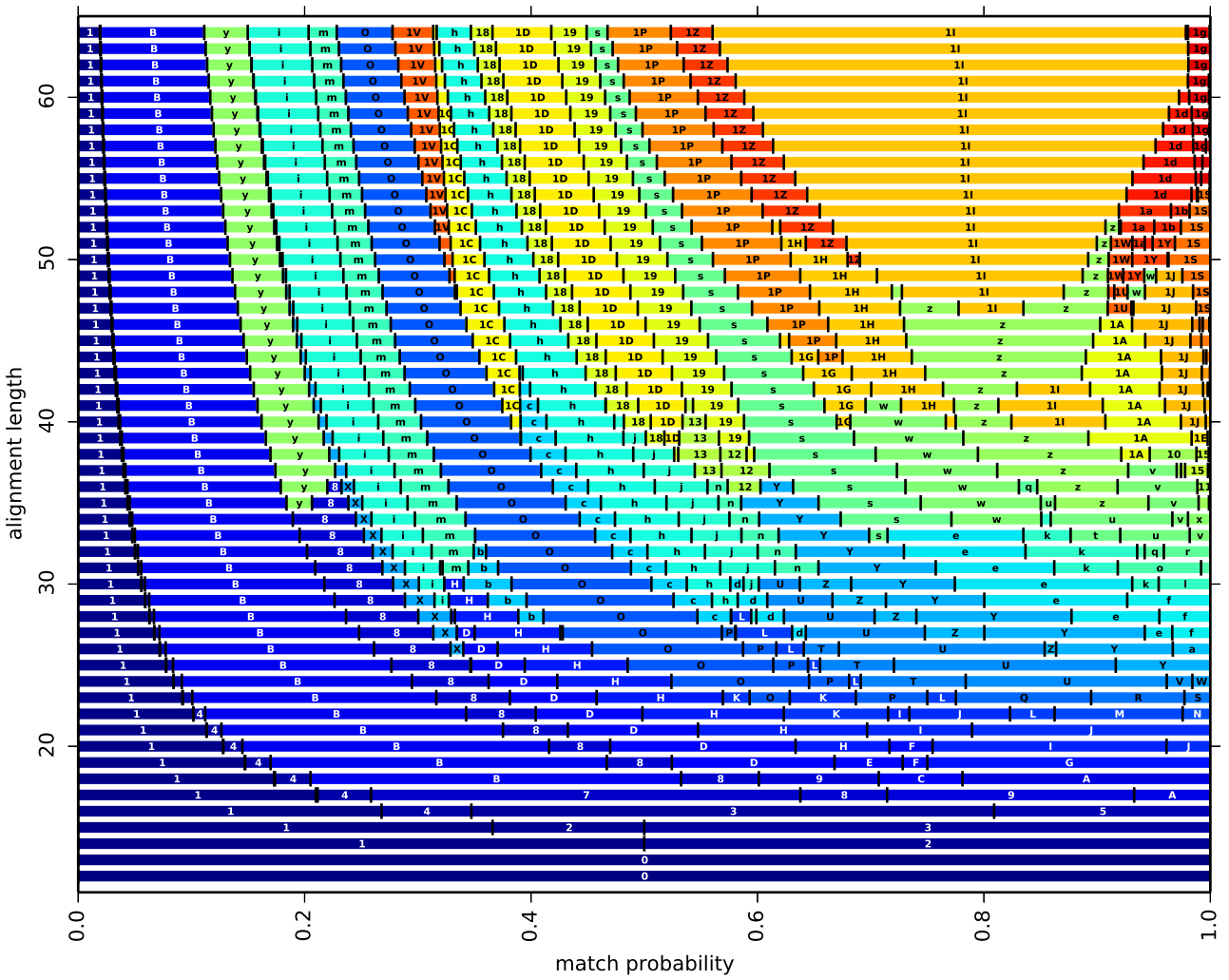
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O = 1111111111,1101111111,1111110111
1 = 1111111111,1101111111,1111101011
2 = 1111111111,1101111111,1111101011
3 = 1110111111,1100111111,1111110101
4 = 1111111111,1101101111,1111011011
5 = 1110111111,1101101111,1111110101
6 = 1110111111,1101110011,1111100101
7 = 1111111111,1111011111,1110111011
8 = 1111111111,1101111011,1111001111
9 = 1101111111,1111101101,1111101001
A = 1110111111,1111101011,1110001011
B = 1101111011,1111001011,1101111000
C = 1101111111,1111011011,1111100111
D = 1111011111,1111110101,1110100110
E = 1110111111,1111101011,1110100110
F = 1110111111,1111001011,1110011001
G = 1111011111,1110111011,1110100011
H = 1111011011,1100101101,1111011000
I = 1110111011,1111001011,1111000100
J = 1110101111,1111001101,1111010001
K = 1110101111,1110011011,1111010001
L = 1110101111,1111001001,1111010001
M = 1111010111,1110010101,1111010000
N = 1110111111,1111001001,1111001001
O = 1110110111,1111010010,1111010001
P = 1101111011,1111010101,1110100111
Q = 1110110111,1111010001,1111001001
R = 1110101011,1110111001,1110100010
S = 1101111011,1110100111,1110011011
T = 1111010111,1110100100,1111010000
U = 1111010111,1110100100,1111001000
V = 1110110111,1110100100,1111001001
W = 1110110111,1110100100,1111000010
X = 1110101011,1110100100,1111100100
Y = 1111010111,1110100100,1111000100
Z = 1110110111,1110100101,1111001001
a = 1110110111,1110100010,1111010000
b = 1111010111,1110100100,1111001000
c = 1101111011,1111001001,1111000101
d = 1110110111,1111010001,1111010000
e = 1110101011,1111001000,1111001000
f = 1110110111,1110010101,1111000100
g = 1110101011,1110100010,1111000100
h = 1110101001,1110101000,1111001000
i = 1110101001,1110100010,1111010000
j = 1110101001,1110010001,1111010000
k = 1110101111,1111100110,1111001001

I = 1101111011,1101110010,1111100010
m = 1110101011,1111001000,1111010000
n = 1110101001,1111001000,1111101000
o = 1110101011,1111001000,1111010000
p = 1110101001,1111010000,1111001000
q = 1110110111,1101011011,1111010000
r = 1110101011,1110101000,1111010000
s = 1110101011,1110010100,1111100100
t = 1110110111,1110100100,1111010000
u = 1110101111,1110110001,1101000011
v = 1110101011,1111001000,1111101000
w = 1110110111,1110100010,1111010010
x = 1110110111,1101011000,1101100001
y = 1110101111,1101101001,1101100001
z = 1110101011,1110100100,1111010000
10 = 1110110111,1110101000,1111010001
11 = 1110101111,1111001100,1111010000
12 = 1011101111,1110011101,1111110010
13 = 1110110111,1110100001,1111001000
14 = 1111010111,1110100100,1111001000
15 = 1110101011,1110100100,1111010000
16 = 1110110111,1110101000,1111010000
17 = 1110101011,1101100100,1111001000
18 = 1110101011,1101001000,1111001000
19 = 1110110111,1110010001,1101001000
1A = 1110110111,1110010001,1111000010
1B = 1110101011,1110101000,1111010000
1C = 1110111011,1111010010,1110100010
1D = 1110100010,1111001000,1111010000
1E = 1110101011,1110101000,1111001000
1F = 1110101011,1110101000,1111010000
1G = 1110110111,1110100010,1111010000
1H = 1110110111,1111001000,1111000010
1I = 1111101011,1110010001,1110010001
1J = 1110100101,1110100010,1111001000
1K = 1110101011,1110001001,1111010000
1L = 1110101111,1111001001,1111000010
1M = 1110001010,1110100010,1111000010
1N = 1111001010,1111010001,1110001000
1O = 1110110111,1110010101,1110110001
1P = 1110111011,1111001011,1111011001
1Q = 1110101111,1110011011,1111010011
1R = 1101111111,1111001011,1110101001
1S = 1110110111,1110100010,1111010000
1T = 1110101011,1110100100,1111010000
1U = 1110111011,1101110010,1111001010

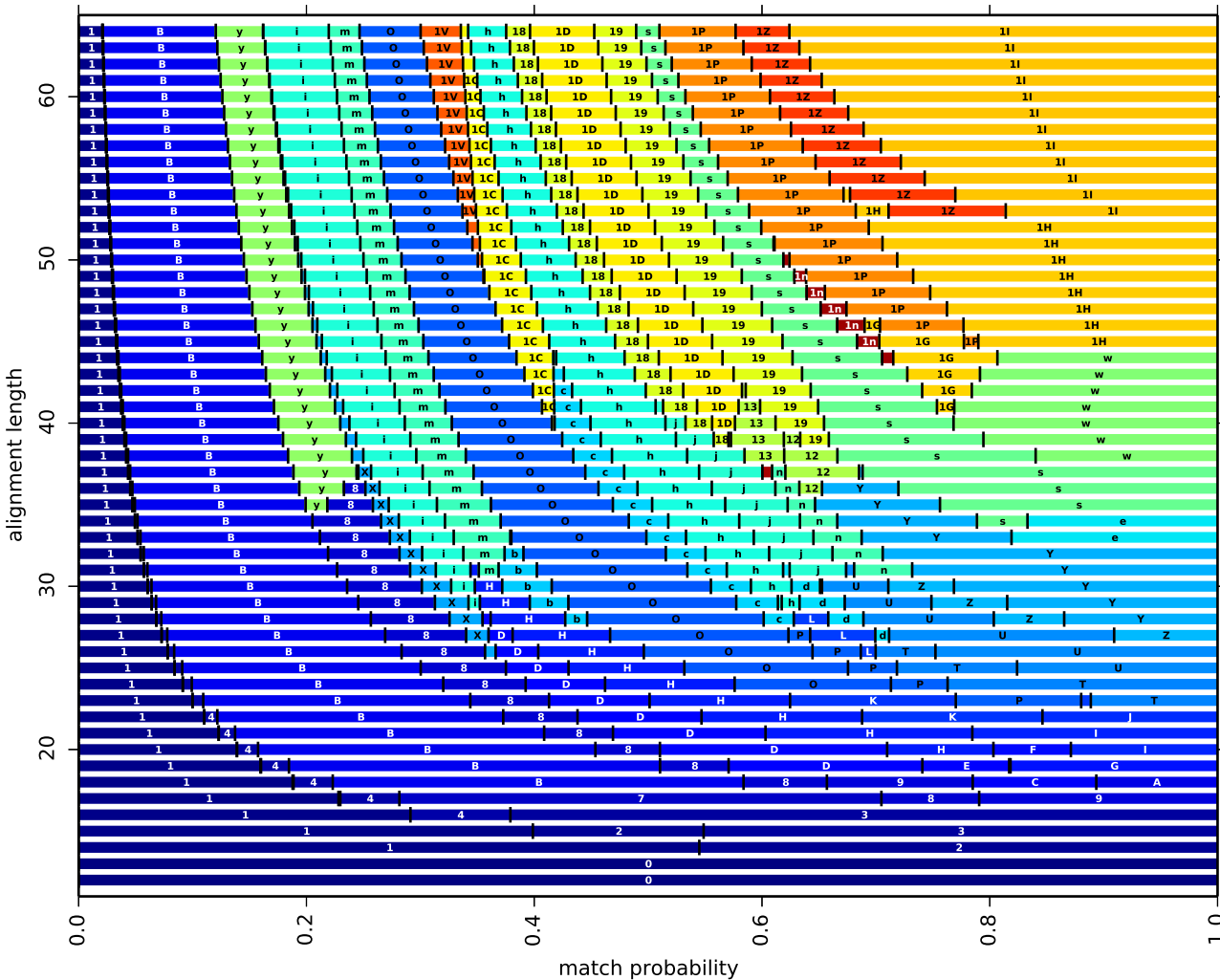
```


Bernoulli (n:3,w:11)



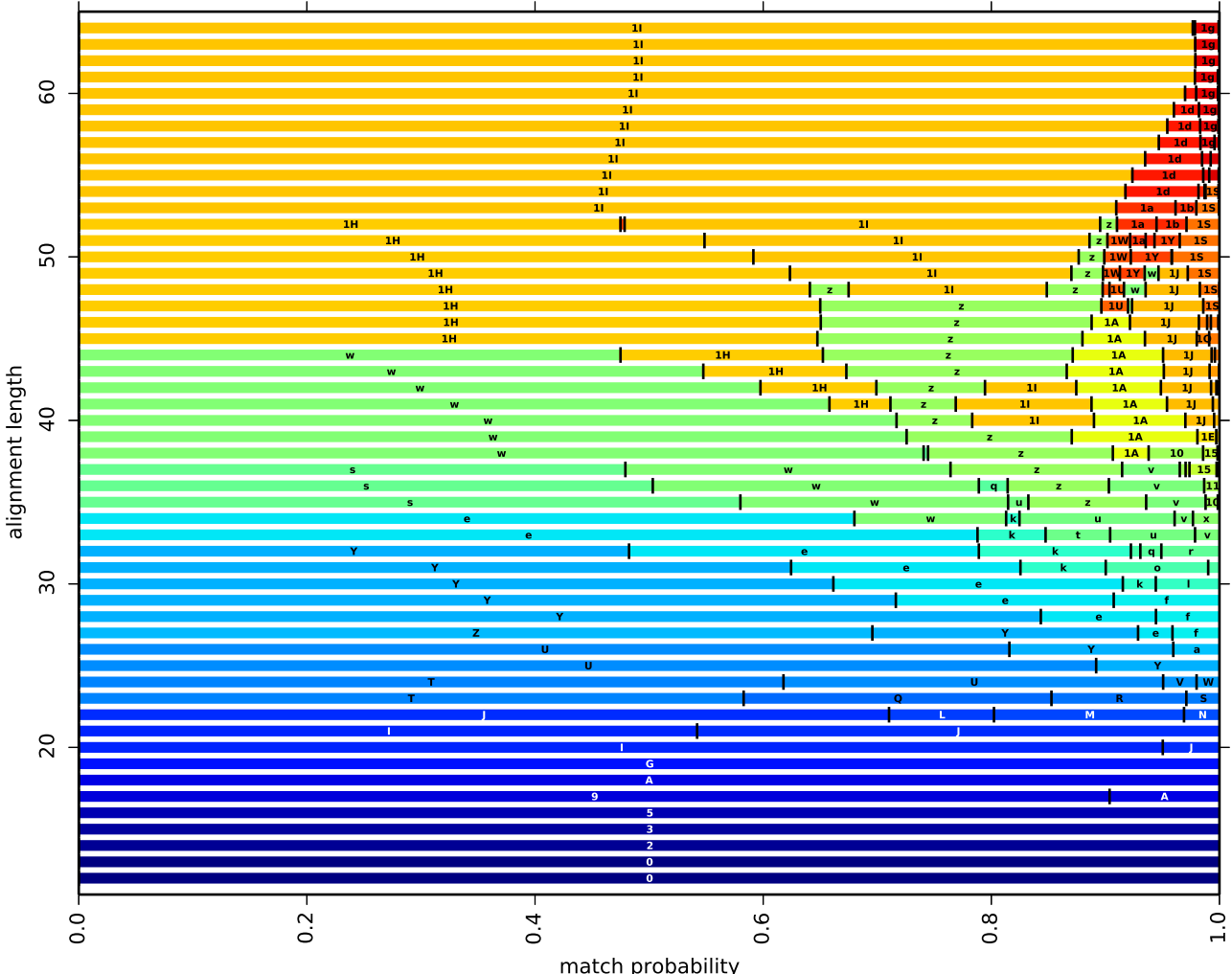
0 = 1111111111,1101111111,111111101111	k = 111101101111,1110101011100111,111011001000101111
1 = 1111111111,1110111111,11111101111	l = 111101101111,111100100010001111,111001000010000101111
2 = 1101111111,1111011111,111111101011	m = 110111110111,111110011111,1110011101101011
3 = 1101111111,111110011111,111111101011	n = 111011011111,11110110010111,1111010001001001111
4 = 1111111111,111011110111,111110101111	o = 111010101111,11101001100010111,11111000010000100010111
5 = 1101111111,111110101111,1111011010011	q = 111010101111,11101001100010111,111011000010000100010111
6 = 1111011111,110110101111,111111100111	r = 111011010111,11100101001001111,11111001000001000010111
7 = 1111011111,110111110111,1111111001011	s = 111011010111,11110100101100111,111100100010000101111
8 = 1111011111,110111110111,1111111001011	t = 111101010111,11110100100010111,11101000100001000101111
9 = 1111011111,111111010111,11101001010111	u = 111010101011,1111100100010100111,11100010000100100011111
A = 1110111111,111111001011,111100101100111	v = 111011001011,11100100010010111,111110001000000100100111
B = 1101111111,111010111011,111110101011	w = 111010101011,111100101010111,111010001000010011111
C = 1111011111,111111001011,11101001110111	x = 111010010101,111001000010010111,111110000100000010010111
D = 1111011111,11101010111,111110100101011	y = 1110111111,111110110111,11101111001111
E = 1110111111,111110010111,111101011100111	z = 111010101011,11101010001000111,111010001000010010001111
F = 1110111111,111111001011,111010011100111	10 = 111010101011,1110100100010100111,11110000001000010001010111
G = 1110111111,111111001011,11100101100111	11 = 111100101011,1111000100100100111,11101000010000000101111
H = 1111011111,111011010111,11110100110111	12 = 11110110111,11101010100111,11110100010001001111
I = 1101111011,111100101111,11111110010111	13 = 11011110111,11101010101011,111100100010001111
J = 1111010111,111010011011,11110110001011	14 = 11101010100111,1110010010001111,11110100000001000010111
K = 1111011111,11101010111,11101100010111	15 = 11101010100111,111001001001000111,11110100000001000010111
L = 1111010111,11101011100111,1111100100010111	16 = 110111101011,111010010101011,11110010001010111
M = 1110101111,11110001101011,1111011000010111	17 = 111010101011,1111001000101011,1111000100010010111
N = 1110101111,111100101011,1110101000100111	1A = 110101101011,11110010100101011,11110001001000100010111
O = 1101110111,111010111011,111011001001011	1C = 1101101111,11101100010111,111100011010111
P = 1110101111,111101101011,11101000010111	1D = 111111010111,11101001010111,111100101000010111
Q = 1111010111,111010001101011,1111010100001011	1E = 11010110111,11110010100101011,1111001000100001000010111
R = 1110101111,11110010101011,1111010000100111	1G = 111011010111,1111001010011011,11110010001000010111
S = 1110101011,111100001011011,111100110000100111	1H = 111010101011,1110100010100111,11110010000100100010111
T = 1110101111,111110010101,1111001010001111	1I = 111010101011,111010001000101011,11110010001000100010111
U = 1110110111,11101010010111,1111010010001011	1J = 11110110111,1110100100101011,1111000010010001010111
V = 1110101111,11110001101011,11110010000100111	1P = 111010101011,11110101000101011,1111001000010010001111
W = 111000101011,1111011000010011,1110100001110100111	1S = 11101110111,1110100100010111,111010001000100100111
X = 1110111111,110111100111,111110010111	1U = 111010101011,1111000100101011,111100001001000101011
Y = 1111011011,11101010100111,1111001000100010111	1V = 11011110111,11011110010111,111100010110111
Z = 1110101111,11111000101011,11110010000100111	1W = 111010101011,11110001000101011,11110001000010010001011
a = 1110101011,111100010010111,11110001010000100111	1Y = 111010101011,111010010010010111,1111000100001000100111
b = 1101011111,111110011011,111110100111	1Z = 111010101011,11101000101000111,11110010000100100010111
c = 1110101111,11101110010011,111110001101011	1a = 111010101011,11101010001000111,111010001000010010001111
d = 1111010111,11101011100111,11101100100010111	1b = 111010101011,111100100010100111,1110001000100010011011
e = 1111010101,1111001010010111,111100100010001001111	1d = 111010101011,11110010001000101011,11100010100100100010111
f = 1111011011,11100010010111,1111000100010010111	1g = 111010101011,1111101000100010101,11100010100100100010111
h = 1110111101,110111100100111,11101001010101011	
i = 1101101111,11110011101011,11111111001011	

$$\int_0^x \text{Hit Integration (n:3,w:11)}$$



0 = 1111111111,1101111111,111111101111	Z = 111011011111,111100011010111,1111001010001001111
1 = 1111111111,1101111111,111111101111	b = 110101111111,1111100111011,110111010001111
2 = 1101111111,1111101111,111111101011	c = 111011011111,11011100100111,111100011010111
3 = 1101111111,1111001111,111111101011	d = 111101101111,110101110011,11101100100010111
4 = 1111111111,1101111011,111110101111	e = 111101101111,1111001010010111,111100100010001001111
7 = 1111011111,1101101111,111111101011	h = 111011110111,11011100100111,1101001010111
8 = 1111011111,1101111011,111111001011	i = 110111011111,111100111011,1111111001011
9 = 1111011111,1111110101,111010010111	j = 111011011111,11101010110011,11101100100010111
A = 1110111111,1111110010,111100101100111	m = 110111110111,111110100111,11100111101011
B = 1101111111,1111011101,111111010111	n = 111011101111,111101101001011,1111010001001001111
C = 1111011111,1111110010,111101001101111	s = 111011101011,1111010010100111,111100100010000101111
D = 1111011111,1110111011,11111010010111	w = 111011011011,1111000110101011,110110001000001001111
E = 1110111111,1111110010,11110101100111	y = 1110111111,1111101101,1101111100111
F = 1110111111,1111110010,1111010011001111	12 = 111101110111,111010100111,1111010001000100111
G = 1110111111,1111110010,111100011001111	13 = 110111101011,11101001101011,1111001000100010111
H = 1111011111,1110110101,11111000110111	18 = 110111101011,1101001101011,11110010001010111
I = 1101111011,1111001011,111101100100111	19 = 111011011011,111101010001011,1111000100100101011
J = 1111011011,1101001101,111101100010111	1C = 1110110111,1101110001011,111100011010111
K = 1111011111,1111011010,111101000101111	1D = 110111101011,1111010100111,11110100010011011
L = 1111010111,1110101110,11111001000010111	1G = 111011010111,111101001100111,111010010001000101111
O = 1101111011,1111010110,111011100100111	1H = 111011011011,1101100010100111,11110010000100010111
P = 1110110111,1111101101,111101000010111	1I = 111011011011,111010001000101011,111100010000100100010111
T = 1110110111,1111100110,1111001010001111	1P = 111011011011,1110101000101011,1111001000010010001111
U = 1111011011,1110101001,11110100100010111	1V = 1101111011,110111101001011,111100010110111
X = 1110111111,1101111001,11111100110111	1Z = 111011011011,111011000101000111,11110010000100100010111
Y = 1111011101,1110101100,1111001000100010111	1n = 111011011011,1111010100011011,111100100100001010111

\int_x^1 Hit Integration (n:3,w:11)



```

0 = 1111111111,1101111111,1111110111
2 = 1101111111,1111011111,1111110101
3 = 1101111111,1111001111,1111110101
5 = 1101111111,1111101011,1111011001
9 = 1110111111,1111110101,111010010111
A = 1110111111,111111001011,11110010110011
G = 1110111111,111111001011,11100101100111
J = 11011110111,111100101111,11101110010011
J = 11101101111,1110100110111,11110110001011
L = 11110110111,1110101110011,1111100100010111
M = 11101011111,11110001101011,111101000010111
N = 11101101111,111100101011,111101000100111
Q = 11110101111,11101000110111,1111010110001011
R = 11101011111,1111001101011,1111101000100111
S = 11101101111,111100001011011,1110011000100111
T = 11101011111,1111110010101,111001010001111
U = 11101101111,1110100101111,1111010010001011
V = 11101011111,11110001101011,1111001000100111
W = 1110100110111,1111011100010011,111010000111000111
Y = 11110110111,1110101100111,1111001000100010111
Z = 11101011111,11111000101011,111100101000100111
a = 11101101111,11110010010111,1111001010000100111
e = 11110110111,111100101001011,11110010001000100111
f = 11110110111,111100101001011,11110001000100100111
k = 11101101011,1111010011001011,111100100001000010111
l = 11110110111,1111001001010011,111100001000100100111
o = 11101010111,1110100110001011,111110000100001000111

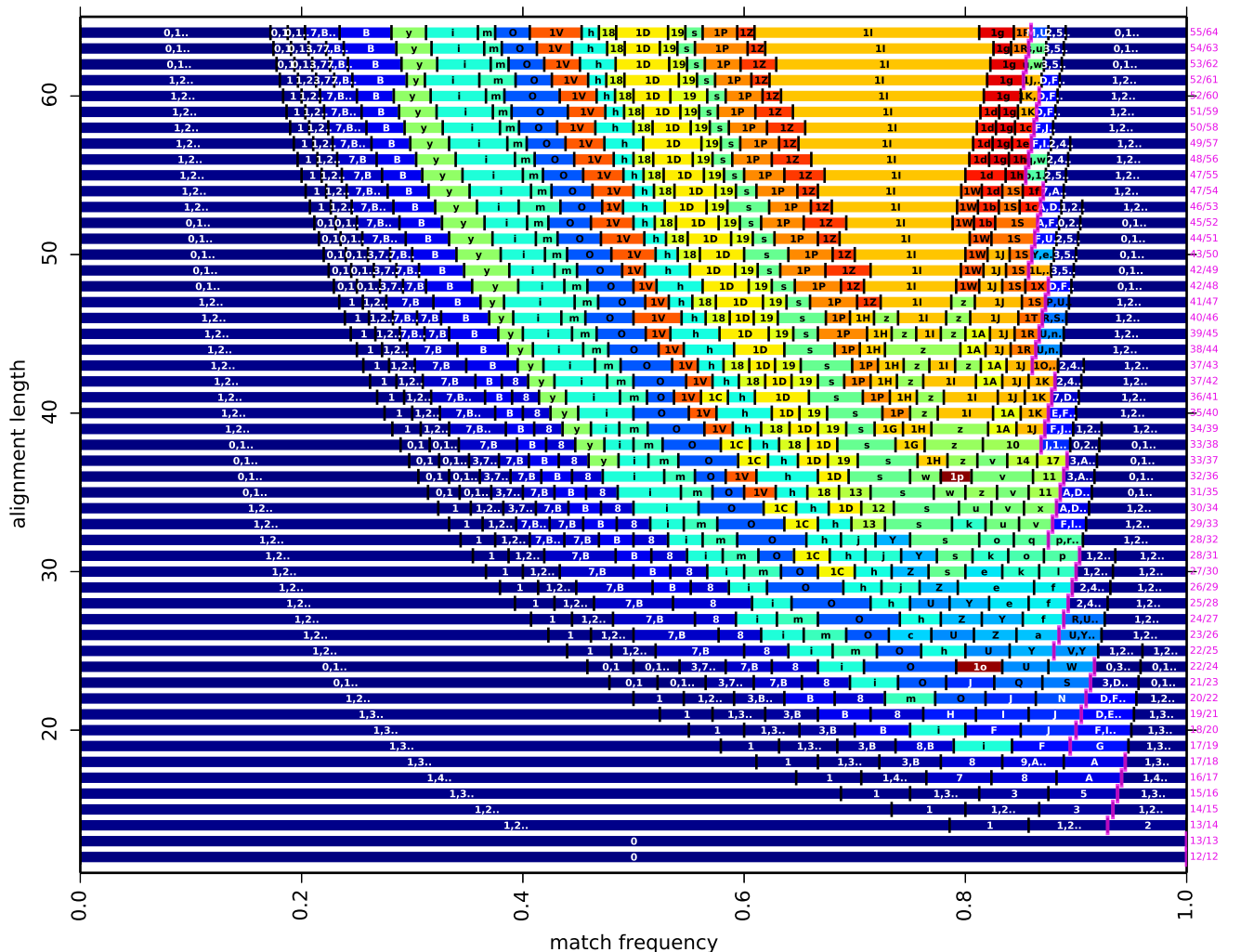
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```

q = 111010101111,11101001100010111,111011000010000100010111
r = 111011010111,11100101001001111,11111001000001000010111
s = 111011010111,1111010010110011,111100100010000101111
t = 111101010111,11110110010001011,1110100010000100010111
u = 111010101011,111110010001010011,1110001000010010001111
v = 1110100101011,1110010100010010111,1111100010000000100100111
w = 11101010111,111100011010111,11101000100000100111
x = 1110100101011,1111001010001001011,111110000100000010010111
z = 111010101011,111011100010001011,1110100010000100010111
10 = 111010101011,111010010001010011,111100000010000100010111
11 = 1111001010111,1111100010010010011,111011000010000000010111
15 = 1110101010011,11100100100100111,111101000000001000010111
1A = 110101101011,111100101001001011,111100010010001000010111
1E = 11010110111,111100101001001011,111100100010001000010111
1U = 111010101011,1111010001010011,111110000100100010111
1I = 111010101011,111010001000101011,1111100010000100100010111
1J = 11110110111,110100010010111,11100001001000101011
1Q = 11110110111,110100101001011,11100101000100010111
1S = 11110110111,1110100101001011,1110100010001000100111
1U = 11101011011,11110000100101011,111100001001000101011
1W = 111010101011,11110001000101011,1111000100001001001011
1Y = 11101011011,111010010010111,111000010010001010011
1a = 111010101011,11101010001000111,110110001000010010001111
1b = 111010101011,11110010001010011,1110001010010001001011
1d = 111010101011,1110100011000101011,1110001010010001000111
1g = 111010101011,11111010001100010101,111000101001001000100111

```

Dirac (n:3,w:11)



```

0 = 1111111111,1101111111,1111110111
1 = 1111111111,1110111111,1111110111
2 = 1101111111,1111011111,1111110101
3 = 1101111111,1111001111,1111110101
4 = 1111111111,1101110111,1111010111
5 = 1101111111,1111100111,1111110011
6 = 1111111111,1111011111,1110110111
7 = 1111011111,1101101111,1111110101
8 = 1111011111,1101110111,1111110011
9 = 1110111111,1111110111,1110100111
A = 1110111111,1111100111,1111001011
B = 1101111111,1111011111,1111010111
C = 1111011111,1111100111,1110100111
D = 1111011111,1101110111,1111010011
E = 1110111111,1111100111,1111010111
F = 1110111111,1111100111,1110010111
G = 1110111111,1111100111,1110010111
H = 1111011111,1101110111,1111010011
I = 1101110111,1111001011,111101100111
J = 1111010111,1110011011,111101100011
K = 1111011111,1111010111,1110100011
L = 1111010111,110101110011,111100100111
M = 1110101111,1110001101011,111101000111
N = 1110101111,1111001101011,111101000111
O = 1101110111,1111010111,1111010011
P = 1110101111,11110101011,1110100011
Q = 1111010111,111000110111,111101100011
R = 1110101111,11110101011,111101000111
S = 1110101011,11110001011011,111001100010011
T = 1110101111,1111100101011,11100101000111
U = 1111011011,111010010111,11110100100111
V = 1110101111,11110001101011,11110100010011
W = 111000110111,11110100010011,11110000011100011
X = 1110111111,11011100111,11111001011
Y = 1111011011,111010100111,1111000001000111
Z = 1110101111,1111000101011,1111001000100111
a = 1110110111,111100100101011,111100101000010011
b = 1101011111,111101010111,111010100111
c = 1110101111,1110111001011,111100101011
d = 1110101111,11101110011,11110100010011
e = 1111010111,11110010010111,1111001000100011
f = 1111010111,11110010010111,1111000100010011
g = 1101110111,111100101011,11101010001011
h = 1110111011,110111001011,1110100101011
i = 1101101111,11110011011,1111110011
j = 1111010111,111010110011,111010100010111
k = 111011010111,111101001100111,1110010000100001011
l = 11110110111,11100100100111,11110000100100111
m = 1101111011,11110100111,1110011101011
n = 1110110111,111101001011,1111010001000111
o = 11101010111,111010010001011,111100010000100011
p = 11110110111,11100101001011,111100010001001011
q = 11101010111,11101010001011,111010000100010011
r = 11101101011,1110010100111,111110010000100001011
s = 11101101011,11110100101011,1111000100001011
t = 11101010111,111010010001011,111010001000010011
u = 111010101011,111100100010011,111000100010010011
v = 1110100101011,111001010001011,11111000100000010011

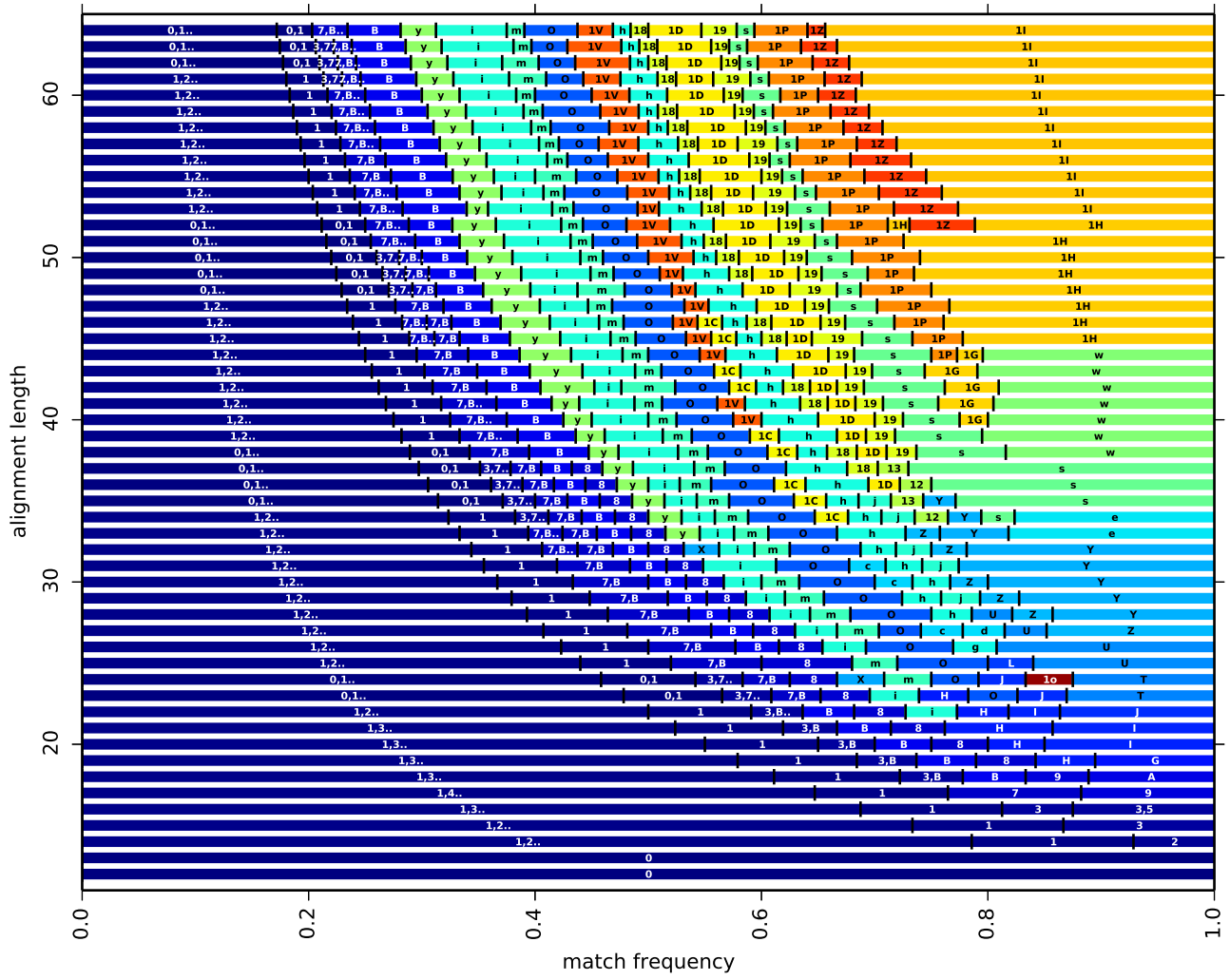
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```

w = 111011010111,111100011010111,11101000100000100111
x = 111011001010111,11100100010010111,11110000100000010010111
y = 111011111111,1111101101011,110111100111
z = 1110101101011,111010110001000111,11101000100001001000111
10 = 1110101010111,1110100100010010111,111100000100000100010111
11 = 1111001010111,1111000100100100111,11101000010000000010111
12 = 11110110111,111010100111,1111010001000100111
13 = 110111010111,111010011010111,11110010001000111
14 = 1111001010111,11101000011010111,1111001000000100010111
15 = 11101010100111,11100100100001111,11110100000001000010111
16 = 11101101111,1110010110111,111101100001011
17 = 11011110111,1110100110111,111100110101011
18 = 110111010111,111010011010111,1111001000101011
19 = 11101010111,111010100010111,111100010010010111
1A = 11010110111,11110010010010111,1111000100001000010111
1B = 11110110111,111001011010111,11110110010001011
1C = 11101011111,11101100010111,11110001101011
1D = 110111010111,111010011010111,11110010100010111
1E = 11010110111,1111001010010111,111100100010000100010111
1F = 11101101111,111010010010111,1110101000001001011
1G = 111011010111,111101001101011,111010010001000010111
1H = 111010101011,11101000100111,1111001000100100010111
1I = 111010101011,11110001000101011,111100010000100100010111
1J = 111011010111,1101100100010111,111100001001000101011
1K = 11101011111,1111011000101,110110100000111011
1L = 11101101011,111100101001011,11100101010001001011
1M = 11110110111,1101100101001011,1110111000100010011
1N = 11110110111,110100101001011,11110010100010001011
1O = 11101101111,111001010101011,1110100000101011
1P = 111010101011,11101011000101011,11100100001000010111
1Q = 11110110111,1101100101001011,11100101000100010111
1R = 11110110111,1101100101001011,1111010001000100011
1S = 11110110111,1110100101001011,11101000010001001011
1T = 110111010111,11110100101011,111000010001010111
1U = 11101011011,1111000100101011,11110000100001001011
1V = 11011110111,11011101001011,1111000111011
1W = 111010101011,11110001000101011,111100010000100001011
1X = 11101010111,1110100100100111,1111000100001001011
1Y = 11101011011,1110100100100111,11110001000100010111
1Z = 111010101011,111010001000111,11110010000100001011
1a = 111010101011,1110101000100011,1101100010000100001011
1b = 111010101011,111100100010011,11100010100100010111
1c = 11110110111,1110100101001011,1110001000010001011
1d = 111010101011,1110100010001011,11100010100100010011
1e = 11101010111,11110100110001011,111000100001001001011
1f = 11110110111,1101100101001011,11110000100010010111
1g = 111010101011,1111100001000101,111000101001000100011
1h = 11101011011,11110000100101011,1110000100010001011
1i = 11101011011,1110001001001011,11110001000010010101
1j = 111010101011,111100100101011,1111000100100010001001
1k = 11110110111,1110101001011,111100001000010011
1l = 11101101011,111010100001011,111001010001000001011
1m = 11110110111,1110101001011,1110100100010011
1n = 11101010111,111101010001011,11110010010000101011
1o = 1110101111,1111010001011,11110000101011
1p = 111010101011,1110100100101011,11110001000100010111
1q = 11110110111,111100100101011,11110010010001000111

```

$$\sum_0^x \text{Heaviside}(n:3,w:11)$$



```

0 = 1111111111,1101111111,1111110111
1 = 1111111111,1110111111,1111010111
2 = 1101111111,1111010111,1111110101
3 = 1101111111,1111010111,1111110101
4 = 1111111111,1110111011,1111010111
5 = 1101111111,1111101011,1111101001
6 = 1111111111,1110111111,1110110111
7 = 1110111111,1101101111,1111110101
8 = 1110111111,1101110111,1111110011
9 = 1110111111,1111110111,1110100111
A = 1110111111,1111100111,1110010111
B = 1101111111,1110111101,1111010111
C = 1110111111,1111110011,1110010111
D = 1111011111,1110110111,1111010011
E = 1110111111,1111100111,1111010111
F = 1110111111,1111110011,1110010111
G = 1110111111,1111100111,1110010111
H = 1110111111,1110110111,1111010011
I = 1101110111,1111001011,1111010011
J = 1111010111,1110100111,1111010001
K = 1111010111,1110110101,1110100011
L = 1110101111,1110101100,1111001001
M = 1110101111,1110001101,1111010001
N = 1110101111,1111001011,1111010001
O = 1101110111,1111010111,1110100111
P = 1110101111,1111011010,1111010001
Q = 1110101111,1110001101,1111010001
R = 1110101111,1111010101,1111010001
S = 1110101011,1111000011,1110011000
T = 1110101111,1111100101,1110010001
U = 1110101011,1110100011,1111010001
V = 1110101111,1110001101,1111001000
W = 1110001101,1111011000,1111010000
X = 1110111111,1111011001,1111001011
Y = 1110110111,1110101000,1111001000
Z = 1110101111,1111000101,1111001000
a = 1110101011,1111001000,1111001000
b = 1101011111,1111001011,1110100111
c = 1110101111,1110110010,1111001011
d = 1110101111,1110101100,1111001000
e = 1110101011,1111001000,1111001000
f = 1110101011,1111001000,1111001000
g = 1101101011,1111001011,1110100011
h = 1110110101,1101110010,1111001011
i = 1101101111,1111001101,1111110011
j = 1111010111,1110101100,1111010000
k = 1110110101,1111001001,1111001000
l = 1110110101,1110010010,1111000000
m = 1101111011,1111010011,1110011011
n = 1110101111,1111010001,1111001000
o = 1110101011,1110100100,1111000000
p = 1110101011,1110010010,1111000000
q = 1110101011,1110100100,1111000000
r = 1110101011,1110010010,1111001000
s = 1110101011,1111001001,1111001000
t = 1110101011,1110100010,1111001000
u = 1110101011,1111001001,1110001000
v = 1110100101,1110010000,1111001000

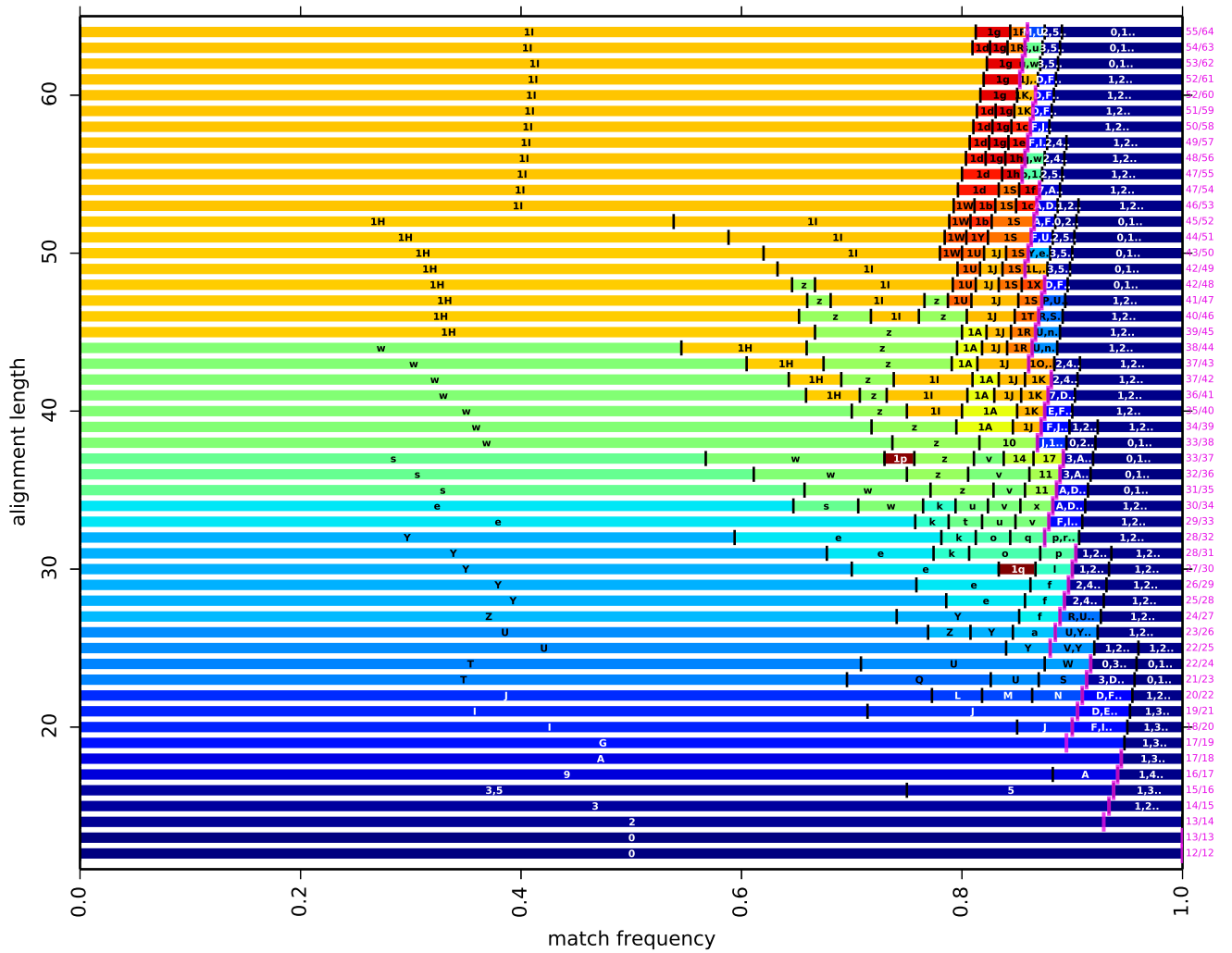
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```

w = 111011010111,11100011010111,11101000100000100111
x = 11101001010111,111001000010010111,1111000010000001001011
y = 1110111111,1111101101,110111100111
z = 111010101011,11101010001000111,1110100010000100100111
10 = 111010101011,1110100100010100111,1111000000100000100010111
11 = 111100101011,1111000100100100111,11101000010000000010111
12 = 1110101011,1110101000111,1111000010000100111
13 = 110111010111,11101001010111,1110010001000111
14 = 110110010111,11101000010100111,1111001001000000100010111
15 = 11101010100111,111001001001000111,11110000000001000010111
16 = 1110110111,1110100111011,111101010001011
17 = 11011101011,111010011011,11100110101011
18 = 11011101011,1110100101011,111001000101011
19 = 1110101011,1111010001011,11110001001001011
1A = 1101011011,11110010001001011,11110001000001000010111
1B = 1110101011,1110010101011,111101010001011
1C = 1110101111,1110110001011,1110001101011
1D = 11011101011,1110100101011,111001010001011
1E = 1101011011,11110010001011,1110010001000010111
1F = 1110101011,111001010011,11101010000001001011
1G = 1110101011,11101001010011,111001000010001011
1H = 1110101011,11101000101011,1110010000100100111
1I = 1110101011,111000110001011,111000100001000010111
1J = 1110101011,11010010001011,11100001001000101011
1K = 1110101111,111011000101,111010100000111011
1L = 1110101011,11100101001011,1110010101000101011
1M = 1110101011,110100101001011,1110101100010010011
1N = 1110101011,110100101001011,11100101000001001011
1O = 1101010111,1110010101011,1110100000101011
1P = 111010101011,11101010001011,11100100001000010111
1Q = 1110101011,110100101001011,11100101000100010111
1R = 1110101011,110100101001011,111010010001000011
1S = 1110101011,11100101001011,1110000100010010111
1T = 11011101011,111010001011,1110000100010010111
1U = 111010101011,1110001001011,1110000100001010111
1V = 11011101011,11011101001011,11110001011011
1W = 111010101011,111100010001011,111100010000100010011
1X = 1110101011,111001010011,1111000100001001011
1Y = 111010101011,11100100101011,1110000100001001011
1Z = 111010101011,11101000100011,111001000100001011
1a = 111010101011,1110101000100011,111001000100001011
1b = 111010101011,111100100101011,1110001000100010111
1c = 1110101011,11100101001011,1110001000100010111
1d = 111010101011,111000010001011,11100010001000100111
1e = 1110101011,111010010001011,1110001000100010111
1f = 1110101011,11010010001011,1110000100010010111
1g = 111010101011,1111010001000101,11100010001000100111
1h = 111010101011,11100001001011,1110000100001001011
1i = 111010101011,11100010010011,11100010001000101101
1j = 111010101011,11110010001011,11100010001000100011001
1k = 1110101011,111010100111,1110000100010011
1l = 111010101011,111010100001011,1110010010000010111
1m = 1110101011,11101010001011,1110100100010011
1n = 111010101011,11101010001011,1110010010000101011
1o = 1101010111,1111010001011,11100100101011
1p = 111010101011,11101000101011,11100010001000101111
1q = 1110101011,111001001001011,11100100100010001111

```

$$\sum_x \text{Heaviside}(n:3,w:11)$$



```

0 = 1111111111,1101111111,1111110111
1 = 1111111111,1101111111,1111110111
2 = 1101111111,1111011111,1111110101
3 = 1101111111,1111001111,1111110101
4 = 1111111111,1101111011,1111010111
5 = 1101111111,1111010111,1111011001
6 = 1111111111,1111011111,1110110111
7 = 1110111111,1101101111,1111110101
8 = 1110111111,1101111011,1111110011
9 = 1110111111,1111010011,1110100111
A = 1101111111,1111110011,1110010111
B = 1101111111,1111011011,1111010111
C = 1110111111,1111110011,1110001101
D = 1111011111,1110111011,1111010011
E = 1101111111,1111001011,1110110011
F = 1110111111,1111100101,1110010011
G = 1110111111,1111100101,1110001101
H = 1110111111,1101110111,1111010011
I = 1101111011,1111001011,1111011001
J = 1111010111,1110011011,1111011001
K = 1111011111,1110110101,1110100111
L = 1110101111,1110101100,1111001001
M = 1110101111,1111001101,1111011001
N = 1110101111,1111001010,1111010001
O = 1101111011,1111001101,1111010011
P = 1110101111,1111011010,1111010001
Q = 1110101111,1110001101,1111011001
R = 1110101111,1111001010,1111010001
S = 1110101011,1111000010,1111001100
T = 1110101111,1111001010,1111001000
U = 1110110111,1110100010,1111010010
V = 1110101111,1111000110,1111001000
W = 1110001101,1111011000,1111010000
X = 1110111111,1101111001,1111101011
Y = 1110110111,1110101001,1111001000
Z = 1110101111,1111000101,1111001000
a = 1110110111,1111001001,1111001000
b = 1101011111,1111001011,1110101001
c = 1110101111,1110110010,1111001010
d = 1110101111,1110111001,1111010001
e = 1110110111,1111001001,1111001000
f = 1110110111,1111001001,1111001000
g = 1101110111,1111001011,1110100010
h = 1110111011,1101110010,1111001010
i = 1101101111,1111001101,1111110010
j = 1110101111,1110101100,1111010000
k = 1110110101,1111010010,1111001000
l = 1110111011,1110001001,1111000010
m = 1101111011,1111010011,1110011101
n = 1110110111,1111010010,1111010000
o = 1110101011,1110100010,1111000010
p = 1111011011,1110010010,1111000010
q = 1110101011,1110100010,1111010000
r = 1110110101,1110010010,1111001000
s = 1110110101,1111010010,1111001000
t = 1110101011,1110100010,1111000010
u = 1110101011,1111001001,1110001000
v = 1110100101,1110010000,1111000010

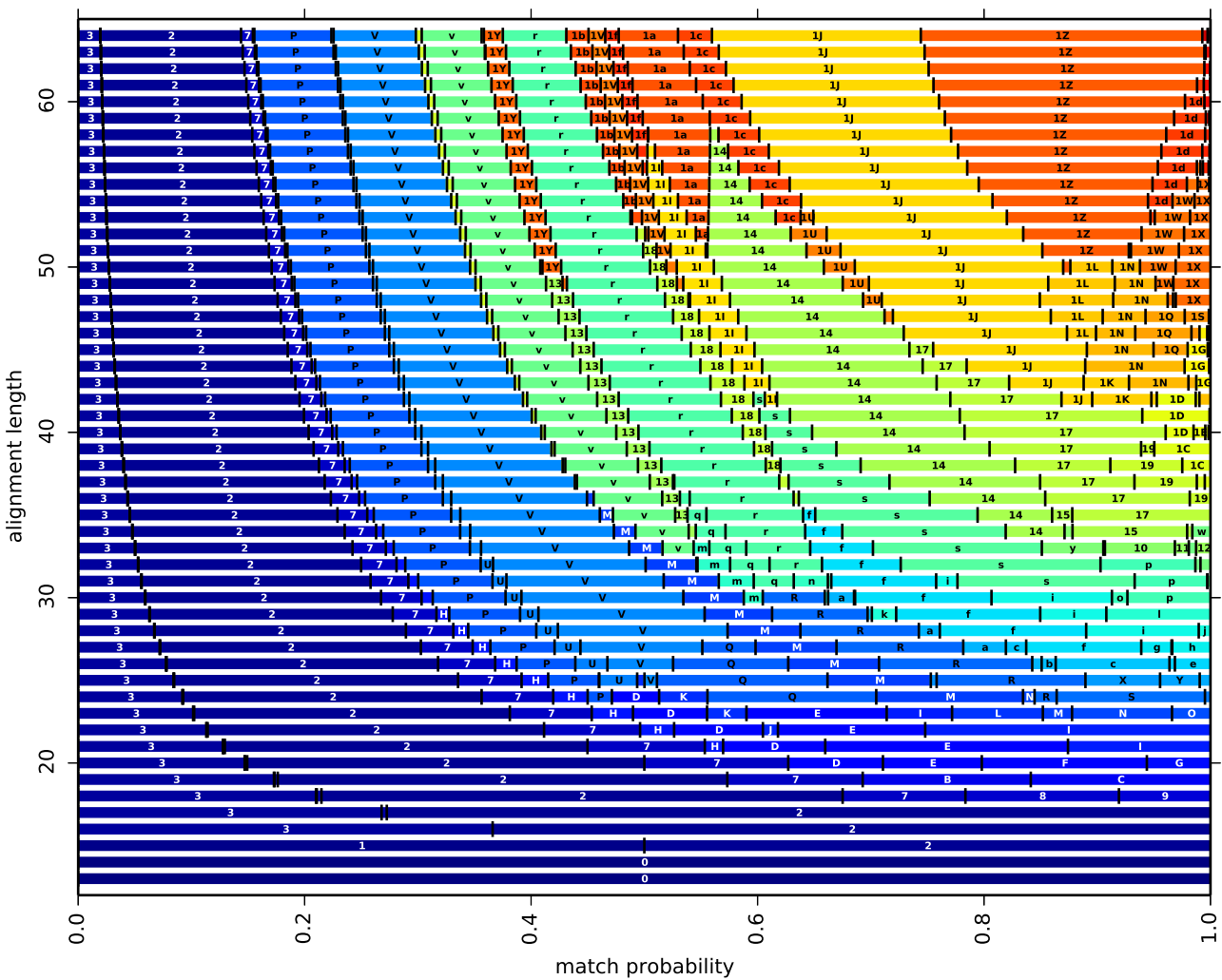
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```

w = 1110110111,1111000110,111011000100000100111
x = 111011001011,1110010001001011,1111000010000001001011
y = 1110111111,1111101101,110111100111
z = 111011011011,1110110001000111,1110100010000100100111
10 = 111010101011,1110100010010011,1111000001000010001011
11 = 111100101011,1111000100100111,1110100001000000010111
12 = 1111101011,111010100111,1110100010001011
13 = 110111010111,11101001010111,11100110001000111
14 = 110110010101,1110101000101011,111100100100000010001011
15 = 111010101001,1111001001000111,1111010000000100001011
16 = 1110110111,1110100111011,111101100001011
17 = 1101110111,111010011011,11100110100101
18 = 110111010111,1110100101011,1110011000101011
19 = 111010101011,11101010001011,111100001001001011
1A = 110110110111,1111001001001011,1111000010000100001011
1B = 1110110111,1110010101011,11110110010001011
1C = 1110110111,1110110001011,1110001101011
1D = 110111010111,1110100101011,111001010001011
1E = 110110110111,111100101001011,1110010001000010001011
1F = 1110110111,11101001010011,1110101000001001011
1G = 111011010111,11101001010011,1110100100010001011
1H = 111010101011,11101000101011,1111001000010010001011
1I = 111010101011,1110100010001011,111100010000100001011
1J = 111011010111,110110010001011,1111000010010001011
1K = 1110101111,1111011000101,1101100000011011
1L = 111011010111,1111001001011,11100101010001001011
1M = 111011010111,1101100101001011,111010110001001011
1N = 111011010111,1110100101001011,1111001010001001011
1O = 111011010111,111001010101011,1110100000101011
1P = 111010101011,11101010001011,1110010000100001011
1Q = 111011010111,1101100101001011,111001010001001011
1R = 111011010111,1101100101001011,1111001000100001011
1S = 111011010111,11100101001011,11100100010001001011
1T = 110111010111,111100100101011,11100100010001001011
1U = 111010110101,1111000100101011,111100001001000101011
1V = 110111010111,11011101001011,11110001011011
1W = 111010101011,11110001000101011,1111000100001000101011
1X = 111010101111,11101010001011,1111001000010001011
1Y = 111010110101,11101001001001011,1111000100001001011
1Z = 111010101011,1110110001000111,11110010000100001011
1a = 111010101011,1110101000100011,11011000100001001000111
1b = 111010101011,1111001000100011,111000100001000101011
1c = 111011010111,111000100101011,1110001000010001011
1d = 111010101011,111010001000101011,1110001000010001011
1e = 111010101111,111010011000101011,1110001000010001011
1f = 111011010111,1101100100010111,1110000100010001011
1g = 111010101011,1111100001000101,1110001000010001011
1h = 111010110111,1110000100101011,1110000100010001011
1i = 111010110101,1110100100100111,11100001000100010101
1j = 111010101011,11110010001001011,11110001000100010001001
1k = 111101101111,11101010001011,1111000100010001011
1l = 111011010111,1110101000010111,111001010000100001011
1m = 111011010111,11101010001011,11101001000100111
1n = 111010101011,11101010001011,11110010010000101011
1o = 111010111111,1111010001011,111000010101011
1p = 111010101011,1110100010101011,11110001000010001011
1q = 111011010111,111001001001011,111100100100010000111

```


Bernoulli (n:3,w:12)



```

0 = 111111111111,110111111111,111101111111
1 = 111111111111,110111111111,111110111111
2 = 110111111111,1111011111011,1111110101111
3 = 111111111111,111101111111,111111011111
7 = 111101111111,110111110111,11111100110111
8 = 111011111111,1101111100111,11111010110111
9 = 111011111111,1111110101011,111011011101011
B = 111101111111,11111111001011,111011001110111
C = 110111111111,111100101111,1111010110010111
D = 111011111111,11111100101111,1111101011100111
E = 111101111111,11101111101011,1111101000101111
F = 110111110111,111100101111,1111011100010111
G = 110111110111,111100010111,11110111100100111
H = 111011111111,1101111101011,1111100101111
I = 111110110111,1110010111011,11111101100010111
J = 111101111111,11101111101011,111101000101111
K = 111011111111,1111110011011,1111001011010111
L = 111101101111,111101000111011,11111101100010111
M = 111011011111,111111011001011,11101010001101111
N = 111011011111,111110011010011,11110101000101011
O = 111011011111,1111100011101011,1111010110001001111
P = 110111011111,1111011100111,111110110111011
Q = 110111101111,11110101111011,1110110010011111
R = 111111011111,1111100101011,111100101000101111
S = 111101101111,111010101100111,111111001001010111
U = 110110111111,11110111101011,111110100110111
V = 110111011111,11110111101011,11101101001101111
X = 111011101111,111100101000111,1111011000001101111
Y = 111101101111,111110010101011,11101010001000101111
a = 111101101111,111010101100111,1111011000010101111
b = 111101101111,111110010101011,1111010001000101111
c = 111101101111,111101101001011,1111010001100010111
e = 111101101111,111100101001011,11110101000000101111
f = 111101101111,111100101010111,1111010001000101111
g = 111101101111,1111100101001011,111100101000100100111
h = 111101101111,1111100101001011,11110101000100010111
i = 111101101111,1111100101001011,11110100010001010111
j = 111101101111,1111100101001011,111110001000100100111
k = 111101101111,111100101010111,11110110001000101111
l = 111101101111,1111100101001011,111110001000100010111
m = 111101101111,1111100011101011,11110110100010111

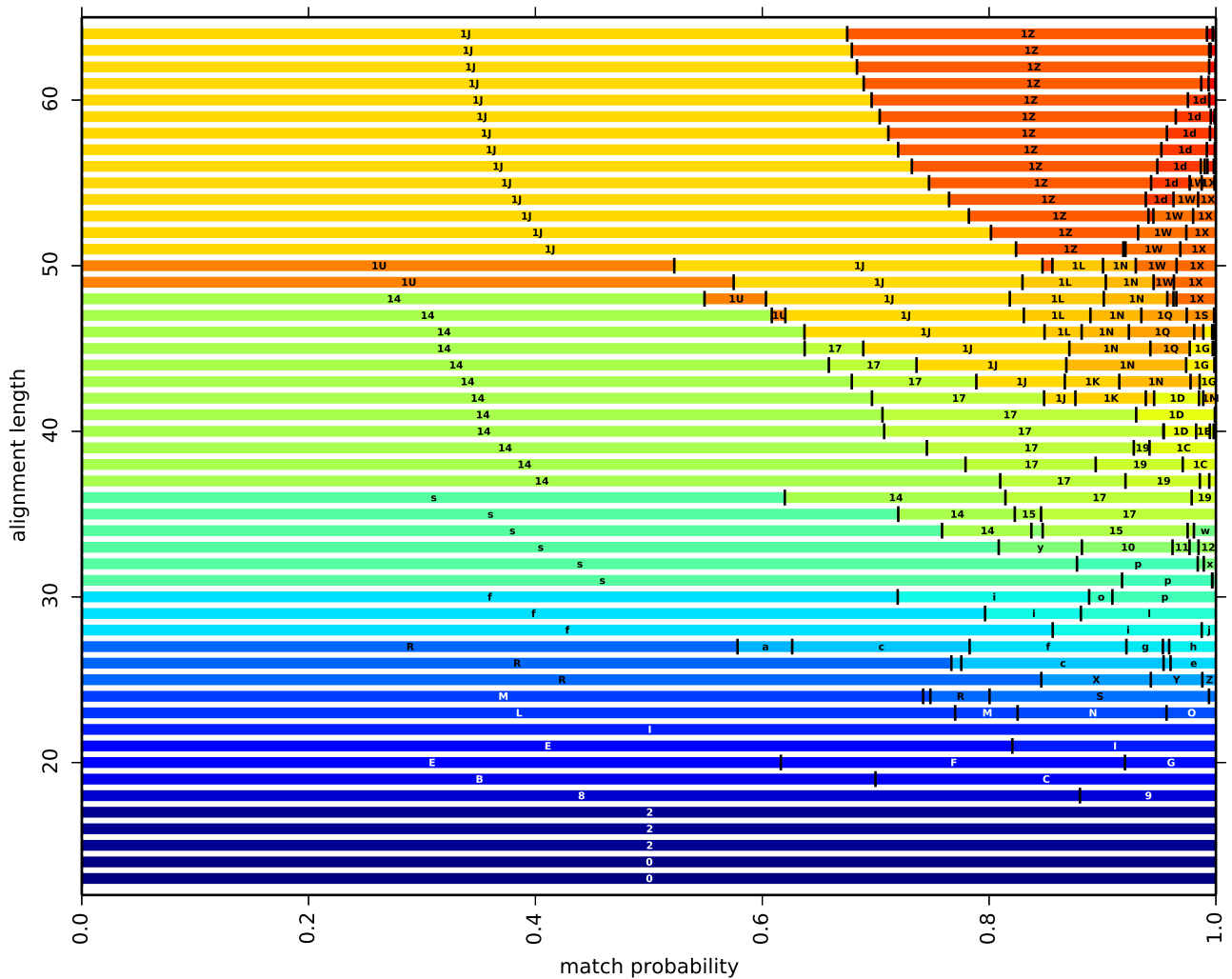
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n = 111101101111,1111001011010111,11110101000100110111
o = 111101101111,11111001010010111,1111000100010001011111
p = 111101101111,1111001010010111,11111000010001000101111
q = 111111110111,11110100110111,1111010011000101111
r = 110101110111,1111011001010111,11110100011001001111
s = 111101101111,1111001010010111,1111010010001000101111
v = 110101111011,111111010011011,111100101001010111
w = 111101101111,11101001010010111,111110000100010001001111
y = 11110110110111,111100101001001111,11110010001000101001111
10 = 111101101111,1111001010010111,11110100001000100101111
11 = 111101101111,1111001010010111,111100010010001000011111
12 = 111101101111,1111010010010010111,111101001000100100001111
13 = 110101110111,111111001110101,1111010100001010111
14 = 11110110110111,1111001010101011,1111000100010010010111
15 = 11101110110111,1111001001010001111,111110001000100100001111
17 = 1110110110111,1111001010010010111,111010001001000100001111
18 = 111101101111,1110101110110011,111011001000010101111
19 = 1110110110111,111010000110010111,1111010001010000010001111
1C = 111101101111,11110100100010010111,11110100010000100010001111
1D = 111010011010111,1110100001100010111,1111000100000100001010111
1E = 11101100110111,11101001000110010111,11110001001000001010111
1G = 111101101111,111101001100010111,11110101001000100100111
1J = 11101110110111,111100100101010111,1111001100010010010111
1K = 11101011101011,1111010010100010111,111100010000010001010111
1L = 1110110110111,1111001010010010111,111010001000100001010111
1N = 1110110110111,1111010010010100111,111010001001000100001010111
1Q = 1110110110111,111100100101010111,11110001001000010001010111
1S = 111101101111,11110010110100111,1111010001000101001111
1U = 1110110110111,111100101001010111,111010001001000101001111
1V = 1110110110111,110110101000010111,111101000101001010111
1W = 1110110110111,11110010010101011,11111001000100010100111
1X = 111101101111,111101001001010111,111010100100010001001111
1Y = 1101011110111,111110100111011,1111001001010001111
1Z = 11101101011011,11101001100010010111,1111000100101000100100111
1a = 1110110110111,11110010100101011,1111000100100100101111
1b = 1110110110111,11111000010101011,11110100011000101111
1c = 1110110110111,111100010010101011,11110001000010001010111
1d = 1110110110111,111101010001100010111,111101000100100101000111
1f = 1110110110111,111100101001101011,1110011001000100101111

```


\int_x^1 Hit Integration (n:3,w:12)



```

o = 111111111111,110111111111,111101111111
z = 110111111111,111101111101,111111010111
8 = 110111111111,11011111001111,1111101010111
9 = 111011111111,111110101011,111010111010111
B = 111011111111,111111001011,111010011001111
C = 1101111110111,111100101111,111010111001011
E = 111101111111,1101111101011,1111010001101111
F = 1101111101111,111001011111,1111011100010111
G = 1101111101111,1111001011111,111011100100111
I = 111101101111,11100101110111,1111011100010111
L = 111101101111,11101001110111,1111011100010111
M = 111011011111,11110111001011,11101010001101111
N = 111010111111,111100111010011,1110101000110111
O = 111010111111,111100011101011,111010110001001111
R = 111011101111,11111001011011,111001010100011111
S = 111101101111,11101011100111,111110010001010111
X = 111011101111,111100101100111,11110100000101111
Y = 111101101111,111100101101011,1110100010001010111
Z = 1110110110111,111100100111011,11101010100000101111
a = 111101101111,11101011100111,1111011000001010111
c = 111101101111,111101101001011,11110100011000101111
e = 111101101111,111100101001011,11110100000010101111
f = 111101101111,111100101101011,1111010001000101111
g = 111101101111,111100101001011,111100101000100101111
h = 111101101111,111100101001011,1111010100010010001111
i = 111101101111,111100101001011,1111010010001000101111
j = 111101101111,111100101001011,111100100010001001111
l = 111101101111,111100101001011,111100010001000101111
o = 111101101111,111100101001011,111100010001000101111

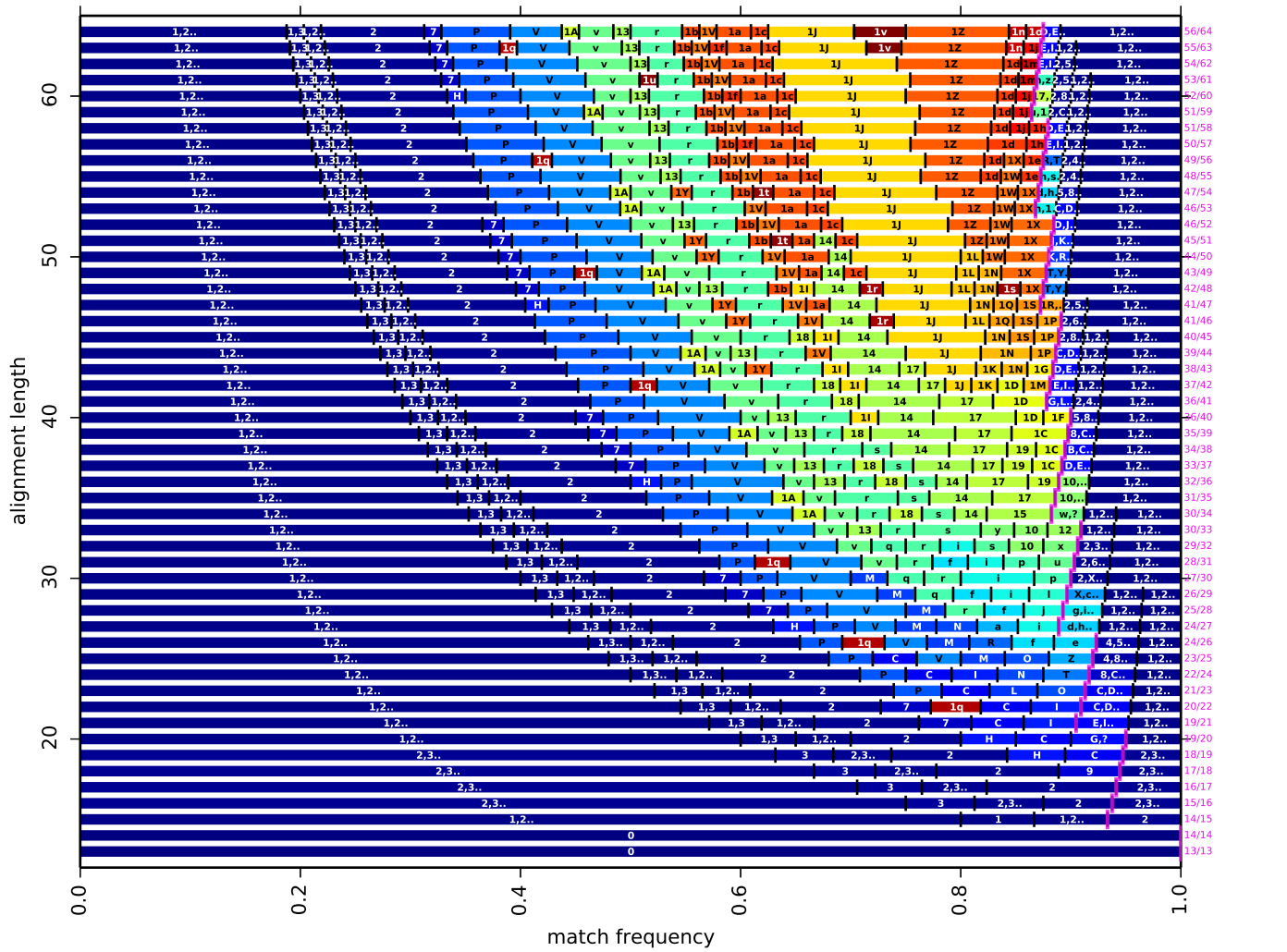
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```

p = 111101101111,11111001010010111,11111000010001000101111
s = 111101101111,1111001010010111,1111010010001000101111
w = 111101101111,111010010100101111,111100001000100010011111
x = 111101101111,11110010100101011,1111000010001000101111
y = 1110110110111,111100101001001111,11110010001000101001111
10 = 111101101111,1111001010010111,11110100010001000101111
11 = 111101101111,11110010010100111,111100010010001000011111
12 = 111101101111,1111010010010010111,1111010010001001000011111
14 = 1110110110111,11110010010101011,11110001000100010101111
15 = 1110110110111,1111001001010001111,111110001000100100001111
17 = 111101101111,11110010010010111,1111010001001000100001111
19 = 1110110110111,111101000011001011,1111010001001000010001111
1C = 1110110110111,111101001000100010111,11110100010000010001001111
1D = 11101100110111,1110101000110001011,1111000100100000100101111
1E = 11101100110111,111010010000110001011,1111000100100000100001010111
1G = 111101101111,11110100110001011,111101010010001001001111
1J = 1110110110111,111100101101011,111010010010001000010001111
1K = 1110101110111,1111010010010000111,1111000100000100010010111
1L = 1110110110111,111100100100101011,1110100010010001000010111
1M = 1110101000101011,1111010010010001100011,1111010001000000001000101111
1N = 1110110110111,111101001001010011,11101000100100010000101111
1Q = 1110110110111,1111001001010011,11110001000100010101111
1S = 111101101111,11110010110011,111010001000101001111
1U = 1110110110111,111100101001001011,111100100100010100101111
1W = 111101101111,111100100101101011,11111001000100010100111
1X = 111101101111,11110100100101011,111010100010001001001111
1Z = 11101101110111,1110100100001001011,1111000100100001000100111
1d = 1110110110111,11110101000110001011,1111010001001001010001111

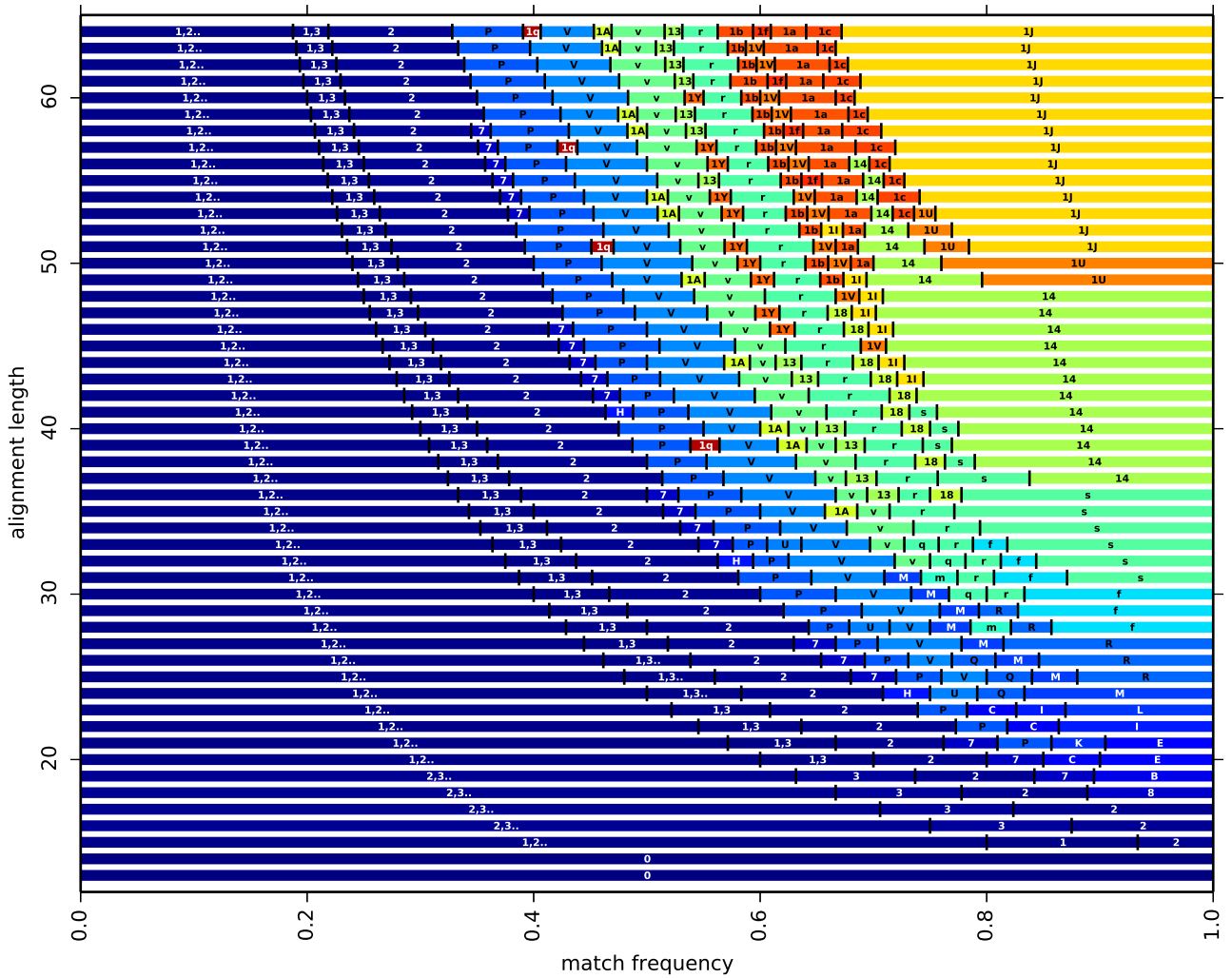
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Dirac (n:3,w:12)



```
0 = 111111111111,110111111111,111011111111
1 = 111111111111,110111111111,111111011111
2 = 110111111111,111101111101,111111010011
3 = 111111111111,111011111111,111111010111
4 = 111111111111,111011111111,111111010111
5 = 111111111111,111011111111,111111010111
6 = 111111111111,111011111101,111101011111
7 = 111101111111,110111110111,111111001011
8 = 111011111111,110111110011,111110101011
9 = 111011111111,111110101011,111011011011
A = 111111111111,111110111111,111011110111
B = 111101111111,111111001011,111010011011
C = 110111111011,111110010111,111100111001
D = 111011111111,111110010111,111110101100
E = 111101111111,111011110101,111101000101
F = 110111110111,111100101111,111110110001
G = 110111110111,111100010111,111011110001
H = 111011111111,110111110101,111110011011
I = 111110101111,111001011011,111101100001
J = 111011111111,111011110101,111101000101
K = 111011111111,111111001011,111001011011
L = 111101101111,111010001101,111101100001
M = 111011011111,111110110011,111010001101
N = 111010111111,111110011001,111101000101
O = 111010111111,111110001101,111101010001
P = 110110111111,111101110011,111110101101
Q = 110111101111,111101011101,111110010011
R = 111011101111,111110010101,111100100001
S = 111101011111,111010110011,111110010001
T = 111010111011,111010100001,111010011000
U = 110110111111,111110111010,111111010011
V = 110110111111,111101110101,111010100101
W = 111010111111,111101110010,111110100010
X = 111011011111,111100101001,111010100001
Y = 111101101111,111100101010,111010100010
Z = 111011010111,111100100101,111010100000
a = 111101011111,111010110011,111101000010
b = 111101011111,111100101010,111101000101
c = 111101101111,111101010010,111101000100
d = 111101011111,111100100101,111010100010
e = 111101011111,111101010010,111101000000
f = 111101011111,111100101011,111101000101
g = 111101101111,111100100101,111100100001
h = 111101011111,111100100101,111101000100
i = 111101011111,111100100101,111101000100
j = 111101011111,111100100101,111100100001
k = 111101011111,111100101011,111101000101
l = 111101011111,111100100101,111100100001
m = 111011011111,111100011010,111101100001
n = 111101011111,111100101011,111101000101
o = 111101011111,111100100101,111100010001
p = 111101011111,111100100101,111110000100
q = 111011101111,111101001011,111101000101
r = 110101110111,111101001011,111100010001
s = 111101011111,111100101001,111101000101
t = 111011010111,111101001000,111110000100
u = 111101011111,111100100101,111101000001
v = 110101110111,111101001011,111101001011
w = 111101011111,111010010001,111110000100
x = 111101011111,111100100101,111110000100
y = 11101101101111,1111001000101111,11110010001000101001111
z = 1110111010101111,11110010100010011111,1111000100001001001111
10 = 11110110101111,111100101000101111,111100010000100010011111
11 = 11110110101111,111100100101001111,1111000100100001000011111
12 = 11110110101111,1111001001001010111,1111010010001000100001111
13 = 11010110101111,1111100110101011,111101010000101011
14 = 11101110101111,1111001001010111,111100010000100100101111
15 = 11101101010111,111100100100001111,11110001000100100001111
16 = 11101101010111,111101101001000111,11110001000100100001111
17 = 11101011010111,1111001010010010111,11110100010010000100001111
18 = 11110101010111,11101101100111,111010100001010111
19 = 11101010101011,11101010000110110111,11110100010010000010001111
1A = 111011011111,111011000110111,111101010101011
1B = 11101101010111,111101010001100010111,11110010001001000010001111
1C = 111010101010111,11101001000100010111,11110100010000010001001111
1D = 11101101010111,11101010000100010111,11100001000001000001010111
1E = 1110100101010111,1110100100001100010111,1111000100100000100001010111
1F = 111010111111,11111011001011,11110010011011011
1G = 11110110101111,111101001000101011,11110101001000100100111
1H = 1110111010111,11111001101011,11110010100101011
1I = 11101101010111,1111001001010111,111100100010010010111
1J = 111011010110111,11101001100010010111,1111000100101000100001111
1K = 11101101101011,1111010010010000111,1111000100000100100010111
1L = 11101011010111,111100100010010111,111010001000010000100010111
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1N = 11101101010111,1111010010010010111,11110001000100001000110111
1O = 11110110101111,111101001100010111,11110010100100010010111
1P = 11101101010111,1110010010100111,111111001100010100011
1Q = 11101101101011,111100100101010111,111100010001000100101011
1R = 11110110101111,110110010101010111,111000110001001010111
1S = 11110111010111,1111001011000111,111011000100010100111
1T = 11110110101011,1111001001010111,111101010000100101011
1U = 11101101101011,1111001010010010111,1111010001000010100111
1V = 11101101010111,11011010100001101011,11110100010100101011
1W = 11101101101011,111100100101010111,1111001000100010100111
1X = 1111011010111,111010010010101011,111010100100010001001111
1Y = 11010111010111,1111101001010111,1111001100010010111
1Z = 111010101101011,11101001100010010111,1111000100101000100100111
1a = 11101101101011,111100100101010111,11110001000100010010111
1b = 11101010101011,111101100001010111,11110000110001010111
1c = 11101010101011,1111000100101011,111100010000100001010111
1d = 11101010101011,1111010001001100010111,1111010001001001000111
1e = 11110111010111,111100100100101011,1110101001000100100111
1f = 11101011010111,111100100101010111,1110011000001001010111
1g = 11110110101111,11101001001010111,11100010100001001010111
1h = 1111011010111,11110100101001101,111100100010001001010111
1i = 111101011111,111101001001010111,1111010000100010010111
1j = 11101011010111,111101001001010111,111101000010001000101011
1k = 11110110101011,11110010001010111,111100010000100100111
1l = 111101011111,1111001001010111,1111000010000100010111
1m = 11101011010111,111101001001000111,111100100100010000100111
1n = 11101011010111,1111010010010010111,1111010001000010000101011
1o = 11110110101011,111101001001010111,1111000010000100010111
1p = 11110101010111,1110100010000101011,1111000010000010000101011
1q = 110101111111,1111110011011,11110110010111
1r = 1110110101010111,111101001100101011,1111001001000010001010111
1s = 11110110101011,1111010010100101011,111101010001000110010111
1t = 11101101010111,111100100101010111,11110101000100010010111
1u = 11010111101011,1111011100101011,1111001001010100111
1v = 1110110010101011,11110010011000101011,111100010010000100001010111
```

$$\sum_0^x \text{Heaviside}(n:3,w:12)$$

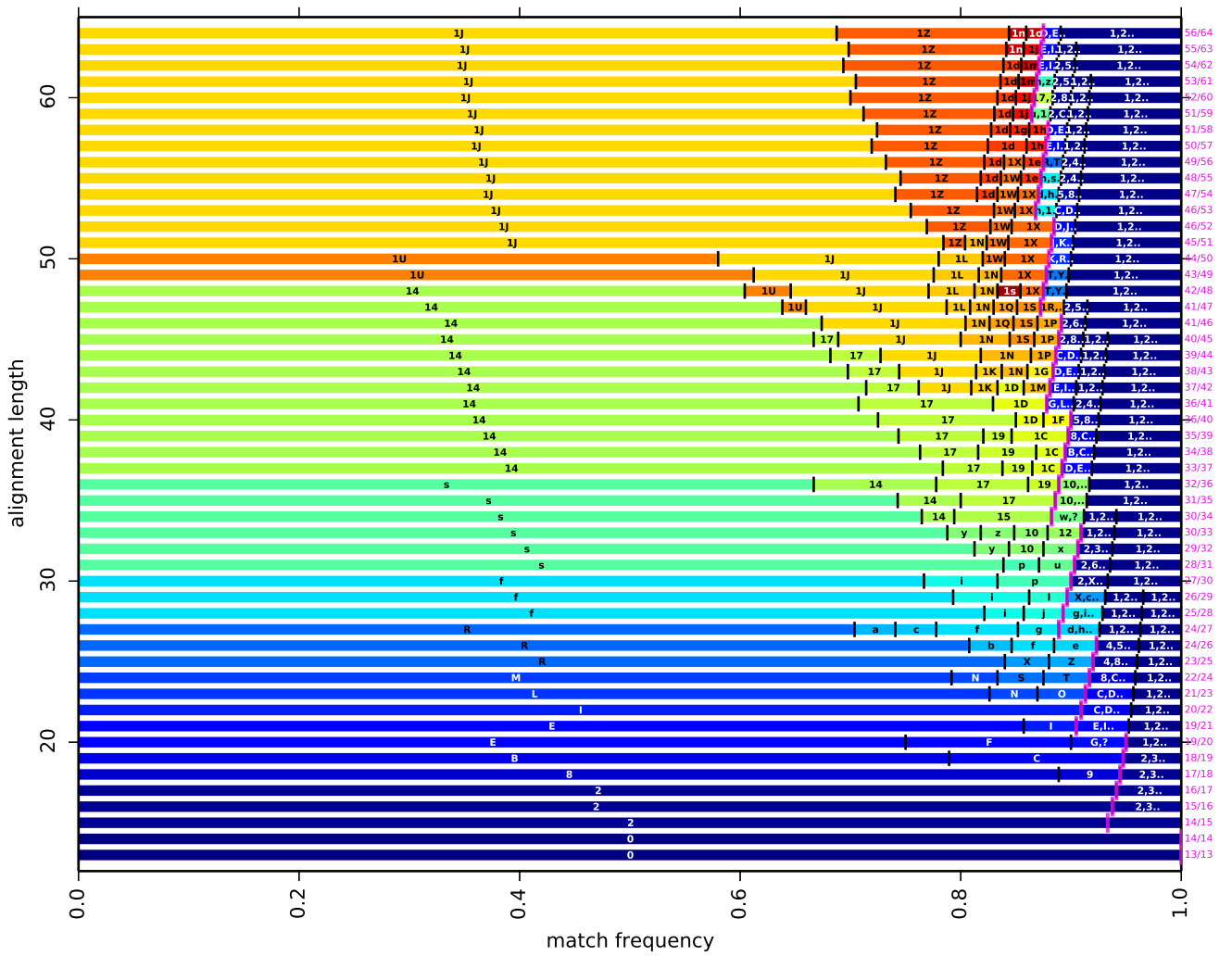


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0 = 111111111111,110111111111,111011111111
1 = 111111111111,110111111111,111111011111
2 = 110111111111,111101111101,111111010111
3 = 111111111111,111011111111,111111011111
4 = 111111111111,110111111111,111111010111
5 = 111111111111,111011111111,111111010111
6 = 111111111111,110111110111,111101011111
7 = 111101111111,110111110111,111111001011
8 = 111011111111,110111110011,111111010111
9 = 111011111111,111111011011,11101101100111
A = 111111111111,111101111111,111011110111
B = 111101111111,111111001011,11101001100111
C = 110111111011,111100101111,1110101110010111
D = 111011111111,111110010111,111101011100111
E = 111011111111,110111110101,11110100010111
F = 110111110111,111100101111,111111010001011
G = 110111110111,111000101111,1110111100100111
H = 111011111111,110111110101,1111100110111
I = 111101101111,111000101101,1111011010001011
J = 111011111111,110111101011,111101000101111
K = 111011111111,111111001011,111001011010111
L = 111011011111,110100011101,111101100010111
M = 111011011111,111101100101,1110101000101111
N = 111010111111,11110011010011,1110101000110111
O = 111010111111,11110001101011,1110101000100111
P = 110111011111,1111011100111,1111011011011
Q = 110111101111,111101011101,111011001001111
R = 111011101111,111110010101,111001000101111
S = 111101011111,11101001100111,1111100100010111
T = 111011011011,1110101000010111,1110100110100010111
U = 110110111111,111101110101,111111010010111
V = 110110111111,111101110101,111010100101111
W = 111010111111,11110111001011,1111010001010111
X = 111011011111,1111001010100111,11101010000101111
Y = 111101101111,11110010110101,11101010001000101111
Z = 111011011011,1111001001011011,111010101000000101111
a = 111101011111,11101001100111,111011000001010111
b = 111101101111,11110010101011,111010001000101111
c = 111101101111,11110101001011,111010001000101111
d = 111101101111,11110010010101,1110101000100101111
e = 111101101111,11110010100101,1110101000000101111
f = 111101101111,11110010101011,1111010001000101111
g = 111101101111,11110010100101,11101001000100101111
h = 111101101111,11110010100101,1110101000100010001111
i = 111101101111,11110010100101,111010010001000101111
j = 111101101111,11110010100101,111100010001000101111
k = 111101101111,11110010101011,111010001000101111
l = 111101101111,11110010100101,111100010001000101111
m = 111011011111,11110001110101,1110101000101111
n = 111101101111,11110010101011,1110101000100101111
o = 111101101111,11110010100101,11100010001000101111
p = 111101101111,11110010100101,1111100010001000101111
q = 111011101111,11110100010101,11101010001000101111
r = 110101110111,11110100010101,11101000100100101111
s = 111101101111,11110010100101,11101010001000101111
t = 111011011011,1111010010001011,111000010001001001111
u = 111011011111,11101001010101,11101000010001000101111
v = 110111101111,11110100110101,11100100101010111
w = 111101101111,1110100101001011,1111000010001000101111
x = 111101101111,1111001010010101,1111000010001000101111
y = 111011011011,1111001010010111,11110010001000101001111
z = 111011011011,111100101000100111,1110001000100101001111
10 = 111101101111,1110010100010111,111000010001000101111
11 = 111101101111,1111001001010011,1110000100010000011111
12 = 111101101111,1110100100010111,1110100100010001000011111
13 = 110101101111,11111001101011,11101010000101111
14 = 111011011011,11100100101011,1110001000100100101111
15 = 111011011011,1110010010001111,1110001000010000011111
16 = 111011011011,1110101001000111,11100010001001000011111
17 = 111011011011,1110010100100111,1110100010010000011111
18 = 111011011011,11101011010011,11101001000010101111
19 = 111011011011,1110101000100101,111010001001000001001111
1A = 111011011111,11101100011011,111010110010111
1B = 111011011011,111010100010001011,1110010001001000010001111
1C = 111011011011,111010010001000101,1110100010000010001001111
1D = 111011011011,111010100010001011,11100010000001000101111
1E = 111011001101011,11101001000010001011,11100010010000010000101111
1F = 111011011111,1111101100101,1110010010110111
1G = 111101101111,1110100100010101,11101001000100100111
1H = 111011101111,11111001101011,1110010100101011
1I = 111011011011,1110010010101011,11100100010010010111
1J = 1110110111011,1110100110001001011,111000100101000100001111
1K = 1110111011011,111010010010100011,111000100000100100010111
1L = 111011011011,1110010010010101,1110100010010001010111
1M = 111010001101011,1110100010001000100011,1110100000000001000101111
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1Q = 111011011011,1110010010101011,1110001000010001010111
1R = 111011011111,110100101101011,11100010001001010111
1S = 111011101111,11110010110011,111010001000101001111
1T = 111011011011,111001001010101,1110101100001000101011
1U = 111011011011,111001010001001011,1110100010000101001111
1V = 111011011011,11010101000011011,1110100010100101011
1W = 111011011011,111001001010101,1111001000100010100111
1X = 111011011111,111010010010101,11101010001000100101111
1Y = 110101110111,11111010011011,11100110010100111
1Z = 1110101011011,111010010001001011,11100010010000100100111
1a = 111011011011,111001001010101,111000100100010010111
1b = 111011011011,111011000010101,1110100011000101111
1c = 111011011011,11100010010101,11100010000001010111
1d = 111011010101,111010100010001011,111010001001010001111
1e = 111011011011,1110100100100101,11101010010001001001111
1f = 111011011011,1110010100110101,1110011001000100101111
1g = 111011011111,111010010010101,11100010100010001010111
1h = 111011011111,1111010010101101,111001010001000101111
1i = 111011011111,1110100100100101,111010001000100101111
1j = 111011011011,11101001100100101,111010100001000100010111
1k = 111011011011,1110010001010101,1110100010001000101111
1l = 111011011111,1110100100101011,111000010001000101111
1m = 111011011011,1110100100100011,11100100100010000100111
1n = 111011011011,1110100100100101,1110100001000010000101011
1o = 111011011111,1110100100101011,11101000010001000101111
1p = 111011011011,11101000100001011,111010001000001000101111
1q = 111011111111,111110011011,11101101001111
1r = 111011011011,1110101001100101,11100100100001000101111
1s = 111011011111,111010010100101,1110101001000110100111
1t = 111011011011,111001001010101,11101010001000100101111
1u = 111011110111,11101110010101,1110010010101001111
1v = 111011001101011,11100101001000101,111000100100001000101111

```

$$\sum_x \text{Heaviside}(n:3, w:12)$$



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0 = 111111111111,110111111111,111101111111
1 = 111111111111,110111111111,111111011111
2 = 110111111111,11110111110111,111111010111
3 = 111111111111,111101111111,111111101111
4 = 111111111111,111010111111,111111011011
5 = 111111111111,111010111111,111111101011
6 = 111111111111,110111110111,111110101111
7 = 111101111111,110111110111,111110011011
8 = 111011111111,11011111001111,111110101111
9 = 111011111111,11111010110111,111011011011
A = 111111111111,111110111111,111011110111
B = 111101111111,11111100101111,111010011011
C = 110111110111,11111001011111,111101011001011
D = 111011111111,11111001011111,11111010110011
E = 111011111111,11011111010111,11110100010111
F = 110111110111,11110010111111,11110110001011
G = 110111110111,11110001011111,1110111100100111
H = 111011111111,11011111101011,111110011011
I = 111101101111,11100101110111,11110110001011
J = 111011111111,11101111010111,11110100010111
K = 111011111111,11111100101111,11110010101111
L = 111101101111,111010001110111,111101110001011
M = 111011011111,111110110010111,1110101000110111
N = 111010111111,1111001110100111,1111010100011011
O = 111011011111,1111100011010111,11110101000100111
P = 110111011111,11110111001111,11111011011011
Q = 110111101111,111110101110111,1110111001001111
R = 111011101111,1111100101010111,11110010100001111
S = 111101101111,1110101011001111,1111101000101011
T = 11101101110111,11101010000110111,1110100110100010111
U = 110110111111,11111011101011,111110100101011
V = 110110111111,111100111010111,1110110100101111
W = 111011011111,111101110010111,1111010001010111
X = 111011011111,11110010110100111,1111010000010111
Y = 111101101111,1111100101101011,11101010001000101111
Z = 11101101101111,11110010010110111,1110110100000010111
a = 111101101111,1110101011001111,111101100001010111
b = 111101101111,11111001011010111,111101000100010111
c = 111101101111,111101100101111,1111010001100010111
d = 111101101111,1111100101010111,1110101000110010111
e = 111101101111,11111001010010111,11110101000000110111
f = 111101101111,1111001011010111,1111101000100010111
g = 111101101111,11111001010010111,11110010100010010111
h = 111101101111,11111001010010111,1111010100010010001111
i = 111101101111,11111001010010111,111101001000100010111
j = 111101101111,11111001010010111,11111000100010010111
k = 111101101111,111100101010111,111101000100010111
l = 111101101111,11111001010010111,11110001000100010111
m = 111011101111,1111100011101011,111101101000110111
n = 111101101111,1111001011010111,111101010001001011
o = 111101101111,11111001010010111,11110001000100010111
p = 111101101111,11111001010010111,1111100001000100010111
q = 111011110111,1111100101101011,1111011001100010111
r = 110101110111,1111011001010111,1111100010010010111
s = 111101101111,1111001010010111,11110100100010010111
t = 1110110110111,11110100100010111,111100001000100100111
u = 111011101111,11110010011010111,11110100001000100010111
v = 110101110111,111110100110111,111101001001011011
w = 111101101111,11101001010010111,1111100001000100010111
x = 111101101111,11111001010010111,1111100001000100010111

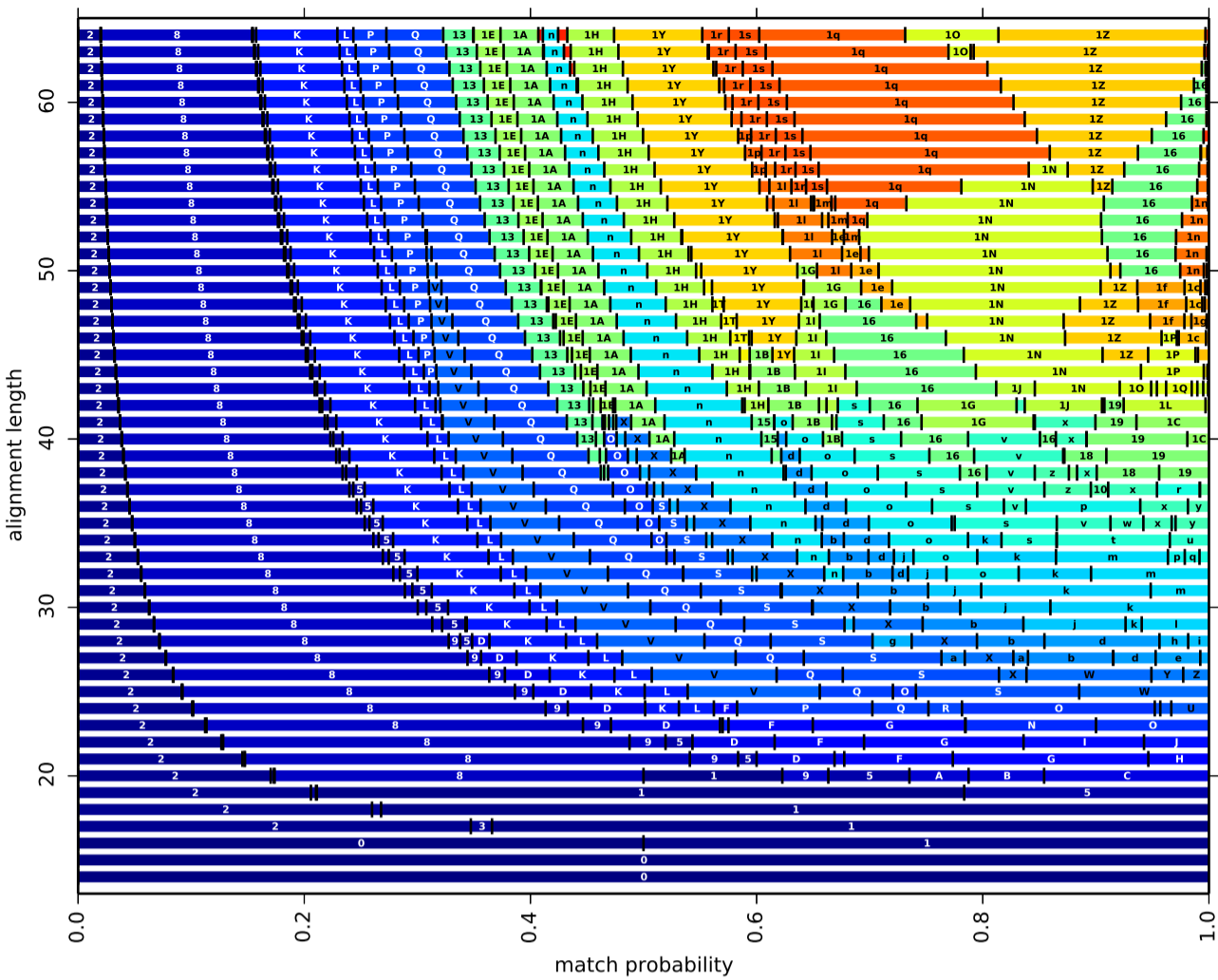
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y = 11101101101111,111100101001001111,1111001000100010100111
z = 11101110110111,1111001010001001111,1111000100010010100111
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11 = 111101101111,111100100101001111,111100010010001000011111
12 = 111101101111,1111010010010010111,111101001000100100001111
13 = 110101101111,1111100111010111,1111011010000110111
14 = 111011101111,111100100101010111,1111000100010010010111
15 = 111011101111,1111001001010001111,111110001000100100001111
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17 = 111011011111,1111001010010010111,1111010001001000010001111
18 = 111101101111,1110101110100111,111011000101010111
19 = 1110110110111,1110110000110010111,1111010001001000010001111
1A = 111011011111,11101110001110111,1111010110010111
1B = 11101101101111,111101010001100010111,11110010001001000010001111
1C = 11101101101111,111101001000100010111,111101000100000100010001111
1D = 11101100110111,1110101000100010111,111100010010000100001010111
1E = 11101100110111,1110100100001100010111,1111000100100000100001010111
1F = 111011011111,111110111001011,11110010010110111
1G = 111101101111,111101001100010111,11110101001000100100111
1H = 111011101111,111110011010111,111100101001010111
1I = 1110110110111,1111001001010111,111100100010010010111
1J = 11101101110111,11101001100010010111,1111000100101000100001111
1K = 11101110110111,11110100100100010111,11110001000010010001010111
1L = 11101101101111,11110010010010010111,1110100010010000100001010111
1M = 1110100010101011,11110100100100011000111,1111010000000000100010111
1N = 1110110110111,1111010010010010111,1111000100100010000110111
1O = 111101101111,11110011000110111,11110010100100010010111
1P = 1110110110111,11100100101100111,111111001100010100011
1Q = 1110110110111,11110010010100111,11110001000100010101011
1R = 111011011111,11011001011010111,11100011000100110111
1S = 111011101111,111100101100111,11111000100010100111
1T = 1110110110111,1111001001010111,11101101100001001011
1U = 1110110110111,1111001010010010111,11101000100100010100111
1V = 1110110110111,1101101010000110111,1111010001010010111
1W = 1110110110111,111100100101101011,11111001000100010100111
1X = 111101101111,111101001001010111,11101010010001001001111
1Y = 110101110111,111110100110111,11110011001010111
1Z = 11101101110111,11101001100010010111,111100010010100010010111
1a = 1110110110111,11110010011010111,1111000100100010010111
1b = 1110110110111,111101100001010111,111100001100010111
1c = 1110110110111,111100010010111,11110001000010001010111
1d = 1110110110111,11110100010001010111,111101000100101000111
1e = 111011101111,11110010010010111,1110101001000100100111
1f = 1110110110111,111100100011010111,111001100100010010111
1g = 111101101111,11101001001010111,1110001010001001010111
1h = 111101101111,11110100101001101,1111001000100010010111
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1j = 1110110110111,1111010011001010111,1111010100001000100011011
1k = 1110110110111,111100100101010111,1111010001000100100111
1l = 111101101111,111011001010010111,111100001000100100111
1m = 1110110110111,1111010010010100111,111100100100010000100111
1n = 1110110110111,1111010010010010111,11110000100010000101011
1o = 111101101111,11101001010010111,1111010000100010010111
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1q = 110101111111,1111110011011,111101101001111
1r = 1110110110111,11110100110010111,111100100100001000110111
1s = 111101101111,111101001010010111,11101010001100011010111
1t = 1110110110111,111100100101010111,111010100010010010111
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1v = 11101100110111,111100101001100010111,11110001001000010000110111

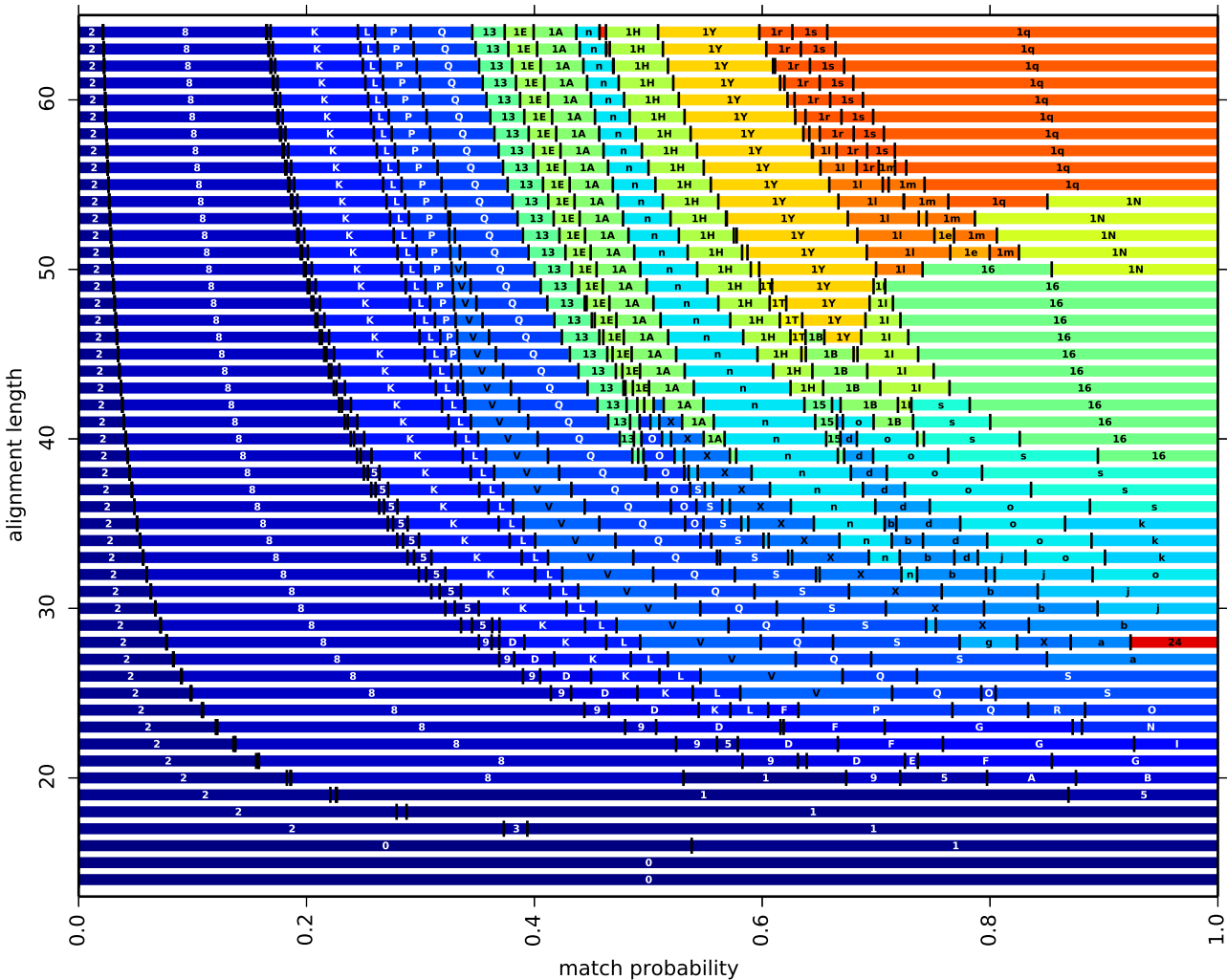
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Bernoulli (n:3,w:13)



0 = 111111111111,111011111111,111111101111
1 = 111101111111,111011110111,111111110101
2 = 111111111111,111101111111,111111101111
3 = 111111111111,111101111111,111111101011
5 = 111101111111,11101111101011,11111110011011
8 = 111101111111,11101111110111,11111110101111
9 = 111011111111,11111101110111,1111110110011111
A = 111101111111,11111111011011,1110110011101111
B = 111011111111,11111101011011,111101001101110111
C = 111011101111,11110111110101,11110110100110111
D = 110111111111,11111010111011,1111110110011111
F = 111011111111,11111101011011,1111001011101011
G = 11011111110111,11111001101111,1111010111001011
H = 11011111101111,11110010101111,1111011110010011
I = 11011111101111,11110011011111,1111101011010011
J = 110111111111,111110100110111,1111001011101011
K = 11011111101111,11110111101101,1111100101111111
L = 11011111101111,111101011111011,1111101100101111
N = 1101111110111,11111001101111,111101011010010111
O = 1101111101111,111110010111011,111101011001001111
P = 11101101111111,11111111001011,1111010111001111
Q = 11011111101111,11111001011011,111101011100101111
R = 11101110111111,111101001110111,11110111010011011
S = 1101111101111,111110100111011,111101011000101111
U = 1111011101111,1111010001011011,111011011000010111
V = 11101110111111,111101111101011,1111010100110111
W = 1111011101111,1110100111101011,1111110100000110111
X = 11101101111111,11110101110011011,111101000011010111
Y = 11110110111111,1110110011101011,11111010010001100111
Z = 11110110111111,1111100101100011,111011100100000110111
a = 11110111011111,111111101010011,1111010011000101111
b = 11110110111111,1111101001010011,11110100110001010111
d = 11110111011111,11111001011010011,111101010001001100111
e = 11110110111111,11111001011010011,111110001010001100111
g = 11011111011111,1111101001110111,11110111001000101111
h = 11110110111111,1111101001010011,1111101000100010100111
i = 11110101101111,111101100110100111,1111010001000100010111
j = 11110111011111,11111010010110011,11110100110001001111
k = 11110110111111,11111001011010011,1111100101000100010111
l = 11110111011111,11111001011010011,1111100100100010010111
m = 11110111011111,11111001001010011,111110010100010001111
n = 11101011101111,11111011001011011,11110101001100010111
o = 11110110111111,11111001011010011,1111001010001000101111
p = 11110110110111,11111001001001011,11110010100010001001111
q = 11110110110111,11110010100100111,11111000100010001010111
r = 11110110110111,111110010010010111,1111001000010001010111
s = 11110110110111,1111100100101101011,11110010100010001001111
t = 11110110110111,111101001010001011,111110010100000100010111
u = 11110110110111,11111010010100011,111110001000100001001111
v = 11110110110111,11111001010010111,111100010001010001001111
w = 11110101101111,111101001101001011,111101001000100010001111
x = 11110110110111,1111100100101001011,1111100010000100010100111
y = 11101110110111,111110100101100011,1111100010001001000010111
z = 11110110110111,1111100101001001011,11110001000100010010111
10 = 11110110110111,1111100101001001011,111101010001000001001111
13 = 11110110111111,111011111010011,111101010001110111
15 = 11101011101111,1111101100101011,1111010001100100011111
16 = 11110101110111,11101100101001011,111100101000100010010111
18 = 11101101101111,111101001100100111,1110110010000100001010111
19 = 11101101101111,111101000110001011,1111000100000100100010111
1A = 11101101110111,1111011101001011,1111010000111010111
1B = 11110110110111,1111100101001101011,1111001100100010010111
1C = 11101110101011,1111100100010010011,111100000100000100100111
1E = 11010111101111,1111101001110111,11110011100100101111
1G = 11110110110111,11111001010010011,111100100010010001010111
1H = 11110110110111,11110010111000111,111011101000010110111
1I = 11110110110111,11110100011000111,11110001100100010010111
1J = 1110110101110111,1111100100011001011,1111100010010000010010111
1L = 1110110011011111,11111001010010010011,11110100010000010011111
1N = 11101101110111,11110010100110001011,1111001001000101000100111
1O = 11101100011010111,11110010100011001011,111101000100100001001111
1P = 1110101001011111,111101001000101001011,11110010000100001010111
1Q = 1110110110011111,1110110100001000100111,1111000001010000010010111
1T = 111011101101111,111100100101101011,1111001010100001100111
1Y = 11101110110111,111101001011010011,111100101000010010111
1Z = 11101101110111,111101001000100101011,111100100010001000100111
1c = 11110101110111,111011001101001011,111110010100010001001011
1e = 11110110110111,1111100101001001011,1110101000100100010010111
1f = 11110101110111,11101100101001011,1110100101000100010010111
1g = 11110111011111,1111001011010011,111101000010001000100111
1l = 11110110110111,11111001001001001011,11110010001010001000111
1m = 1110101110110111,111110010100010101011,11110010001001000100111
1n = 11110110110111,111101001101001011,111100101000101000101011
1p = 11110110110111,1111100101001001011,111101000100100010001111
1q = 111011011010111,11110010100100010111,11110001000100010000101011
1r = 1101110111010111,111101001001001011,111100100010001010010111
1s = 1110110101110111,11110100110001001011,11110001001000100100111

\int_0^x Hit Integration (n:3,w:13)

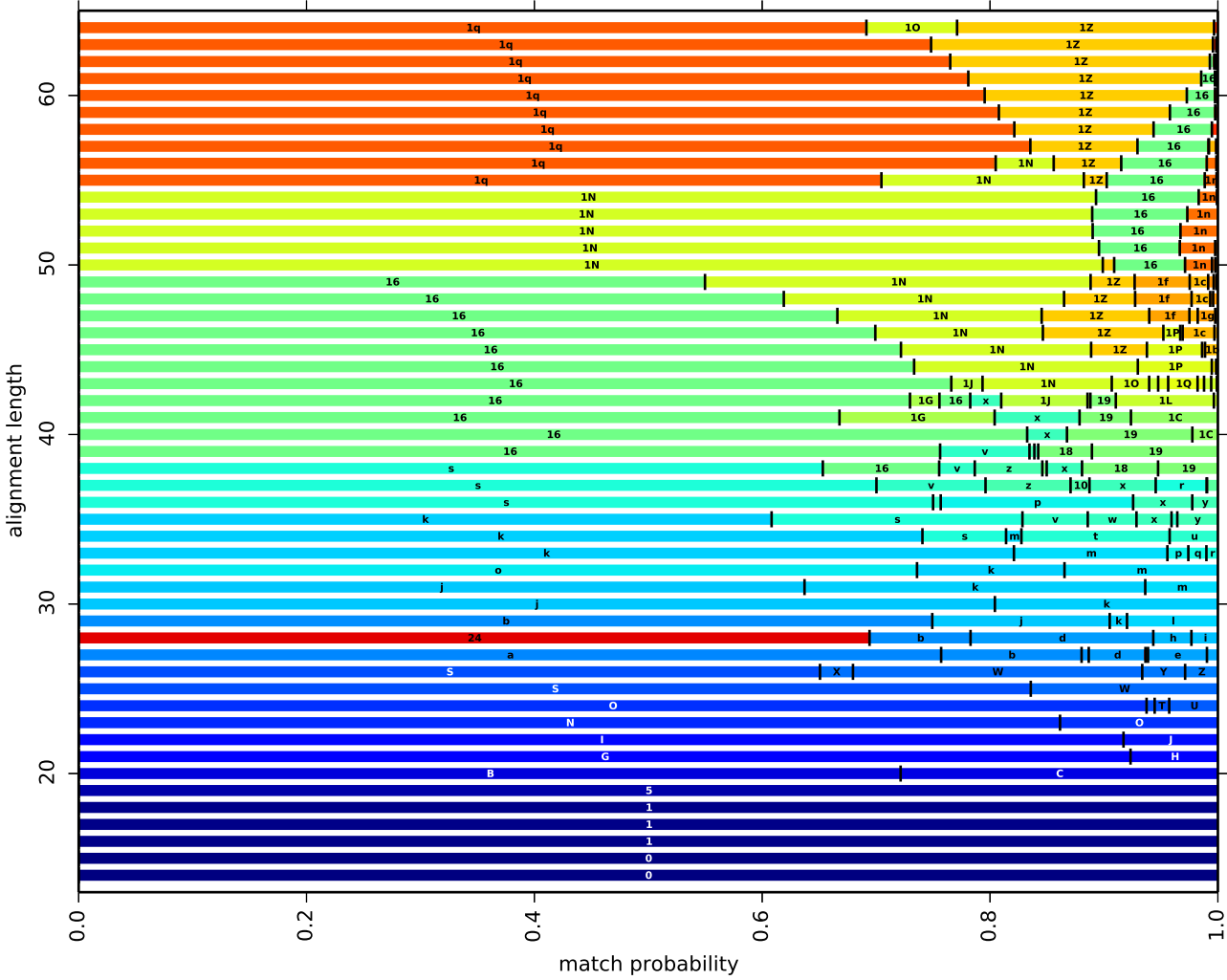


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0 = 111111111111,111011111111,111111101111
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2 = 111111111111,111011111111,111111101111
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5 = 111101111111,1101111101011,11111100110111
8 = 111101111111,1101111110111,11111110101111
9 = 111011111111,1111110111011,11111101001111
A = 111101111111,1111111011011,11011001110111
B = 111011111111,1111110101011,1111010011011011
D = 110111111111,11111010111011,111111011001111
E = 111011111111,1111110101011,111100101101111
F = 111011111111,1111110101011,1111001011010111
G = 110111111011,1111100101111,1111010111001011
I = 110111111011,1111100101111,1111101011001011
K = 110111111011,11110111011011,111110010111111
L = 110111111011,111101011111011,111110100101111
N = 110111111011,1111100101111,11110101010010111
O = 110111110111,111110010111011,111101011001001111
P = 111011011111,11111111001011,11110101011100111
Q = 110111111011,111111001011011,11101011100101111
R = 111011110111,111101001110111,111101110100110111
S = 110111110111,111110100111011,11110101100101111
V = 111011011111,111110111101011,11110110100110111
X = 111011011111,1111010111001011,1111011000110101111
a = 111101101111,1111111010110011,1111010011000101111
b = 111101101111,11111010010100111,11110100110001010111
d = 111101101111,111110010110100111,11110101001001100111
g = 110111110111,111110100111011,1111011100100010111
j = 111101101111,11111010010100111,11110100110001010111
k = 111101101111,111110010110100111,111100101000100010111
n = 1110101110111,111110100101011,11110101001100010111
o = 111101101111,111110010110100111,1111001010001000101111
s = 11110110111011,1111100100101101011,1111001010001000101111
13 = 1111011011111,110111111010011,1111010100011101111
15 = 11101011110111,1111101100101011,1111010001100100011111
16 = 11110101110111,1110110011010010111,11110010100010010101111
1A = 11101101110111,11110111010011011,111101000111010111
1B = 11110110111011,1111100101001101011,1111001100100010010111
1E = 1101011110111,111111010011011,1111001110010010111
1H = 1111011011011,111100101011000111,111101110100001010111
1I = 11110110110111,1111010100110100111,11110001100100010010111
1N = 111011011101011,111100101001100010111,11110010010001010000100111
1T = 11101110110111,111100100101101011,1111001010100001100111
1Y = 11101101101011,111101001010110011,1111001010001000100111
1e = 11110110111011,1111100101001001011,111010100010010001010111
1l = 11110110111011,1111100101001001011,111100101000101000111
1m = 11101111011011,11110100110001101011,1111001010001001000010111
1q = 111011011101011,11110010100110001011,11110001001000101000010111
1r = 11011101101011,1111010010100110011,111100100010001010010111
1s = 11101101110111,11110100110001001011,111100010010100010010111
24 = 1111011011111,1111010111001011,11110100010001101111

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\int_x^1 Hit Integration (n:3,w:13)

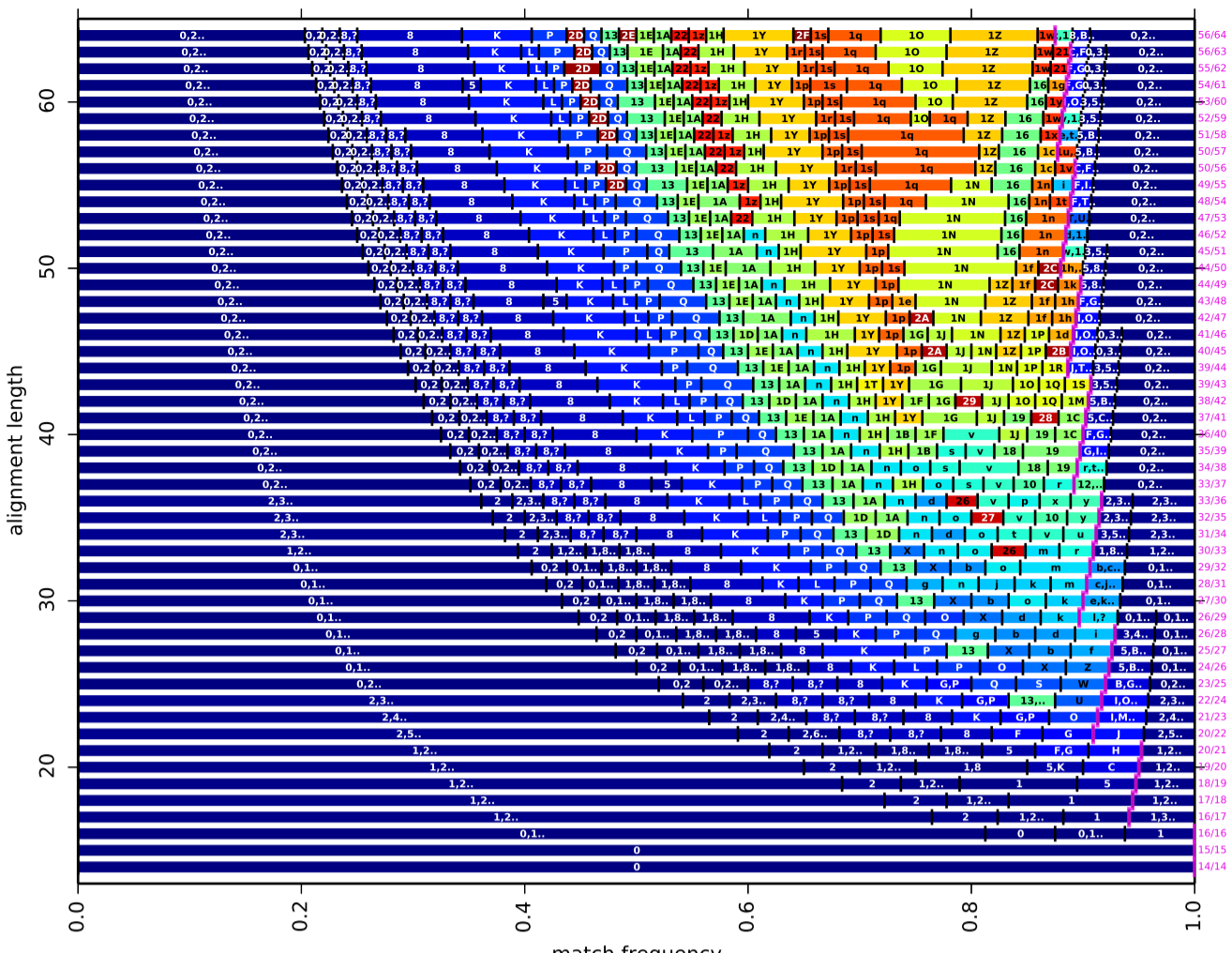


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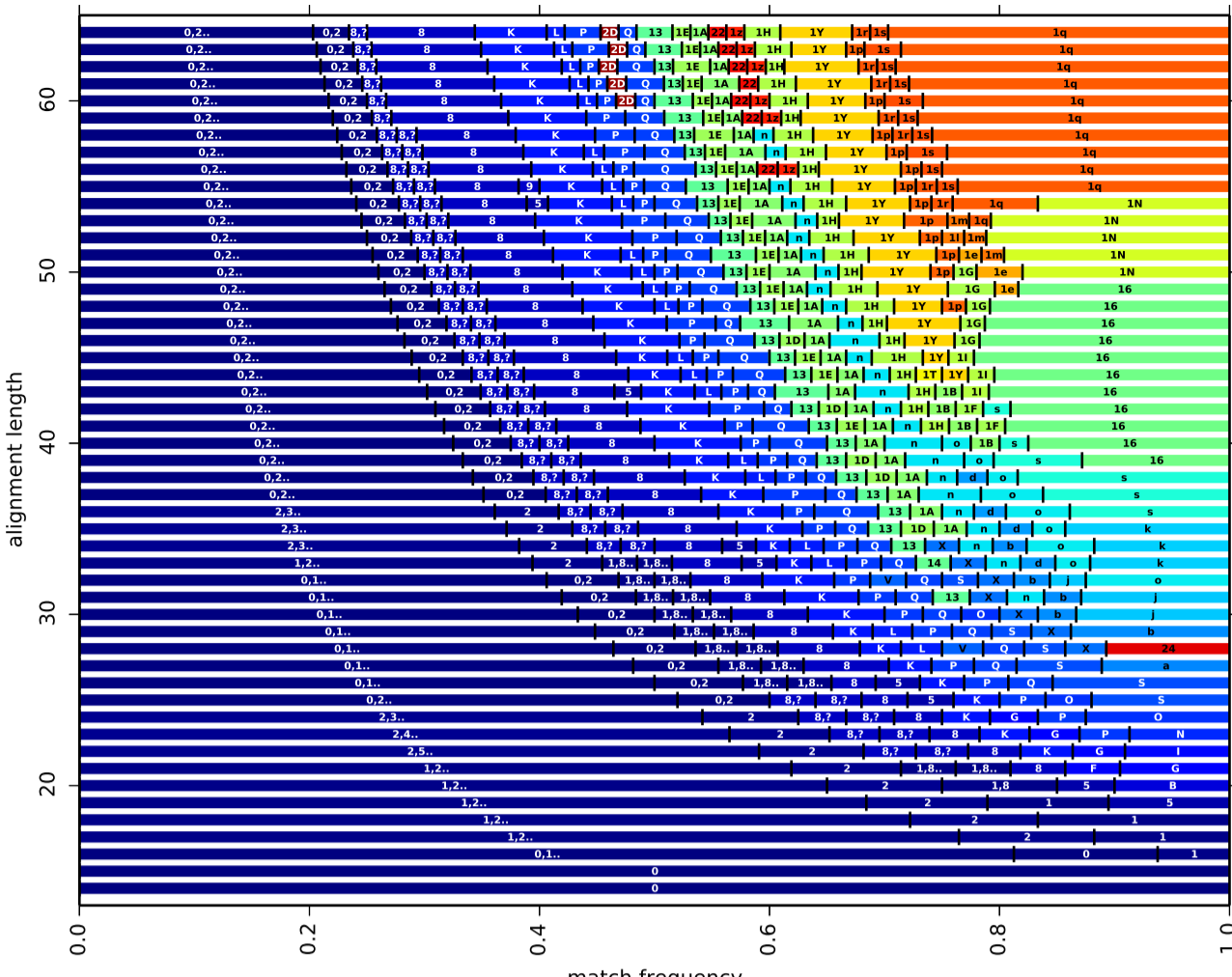
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Dirac (n:3,w:13)



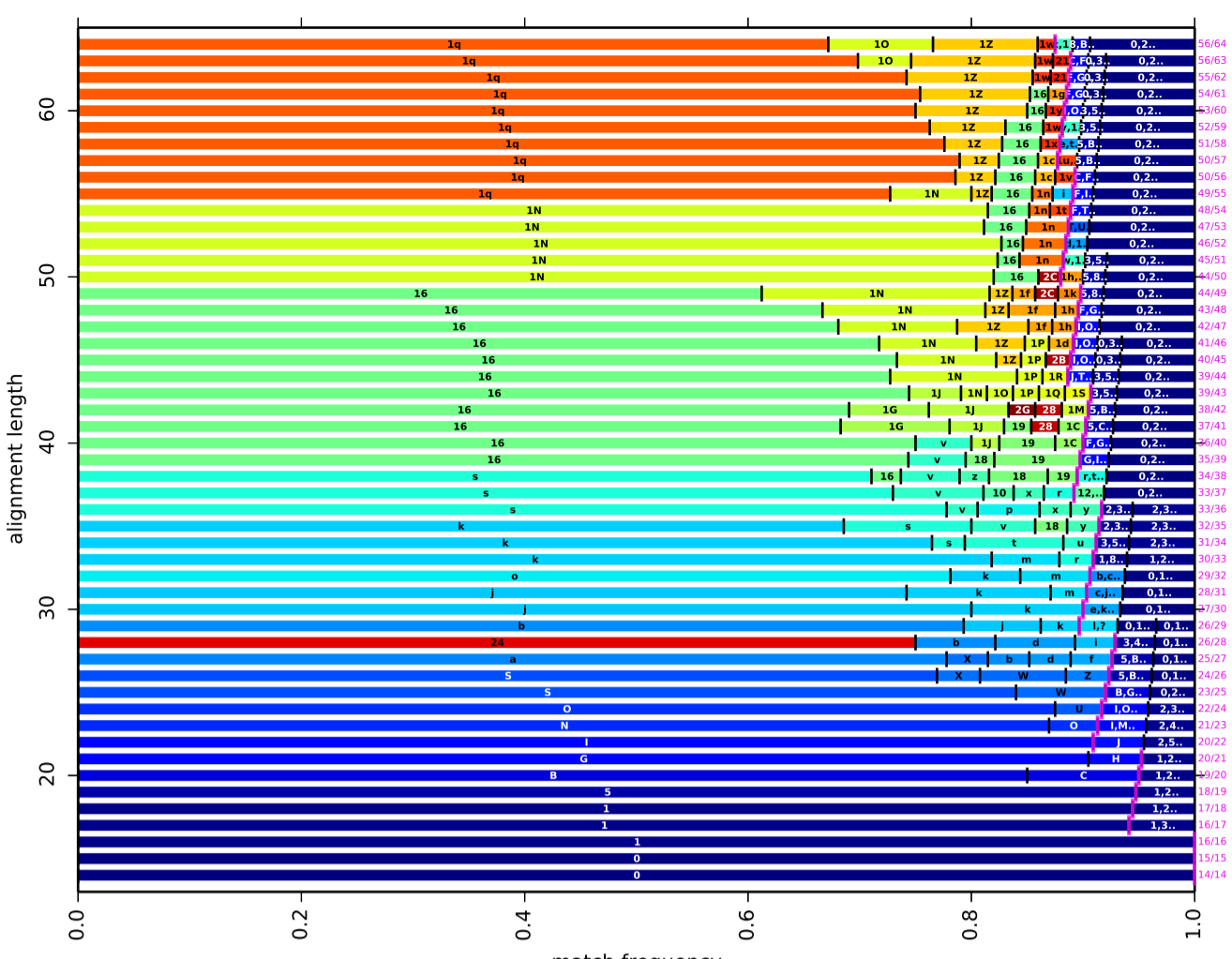
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4 = 1111111111111,1110110111111,111111110101111
5 = 1111011111111,111011111101011,111111100101111
6 = 1111111111111,1111011111111,111111101011111
7 = 1111111111111,111101111101111,111111010111111
8 = 1111011111111,110111111110111,111111101011111
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B = 1110111111111,111111101011011,11111010011011011
C = 1111011111111,1110111111101011,1111101101001101111
D = 1101111111111,1111101011110111,11111101100111111
E = 1110111111111,1111111010110111,11110010111011111
F = 1110111111111,1111111010110111,111100101110101111
G = 11011111110111,111110011011111,1111010111100101111
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I = 11011111110111,111110011011111,1111101011101001111
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T = 1110111101111,1111110100110111,11110100110100101111
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V = 1110111011111,111110111101011,1111101101001011111
W = 1111011101111,1110100111010111,1111110100000101111
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Z = 1111011011111,111110010110100111,111101100100000101111
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$$\sum_0^x \text{Heaviside}(n;3,w;13)$$



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$$\sum_x \text{Heaviside}(n;3,w;13)$$

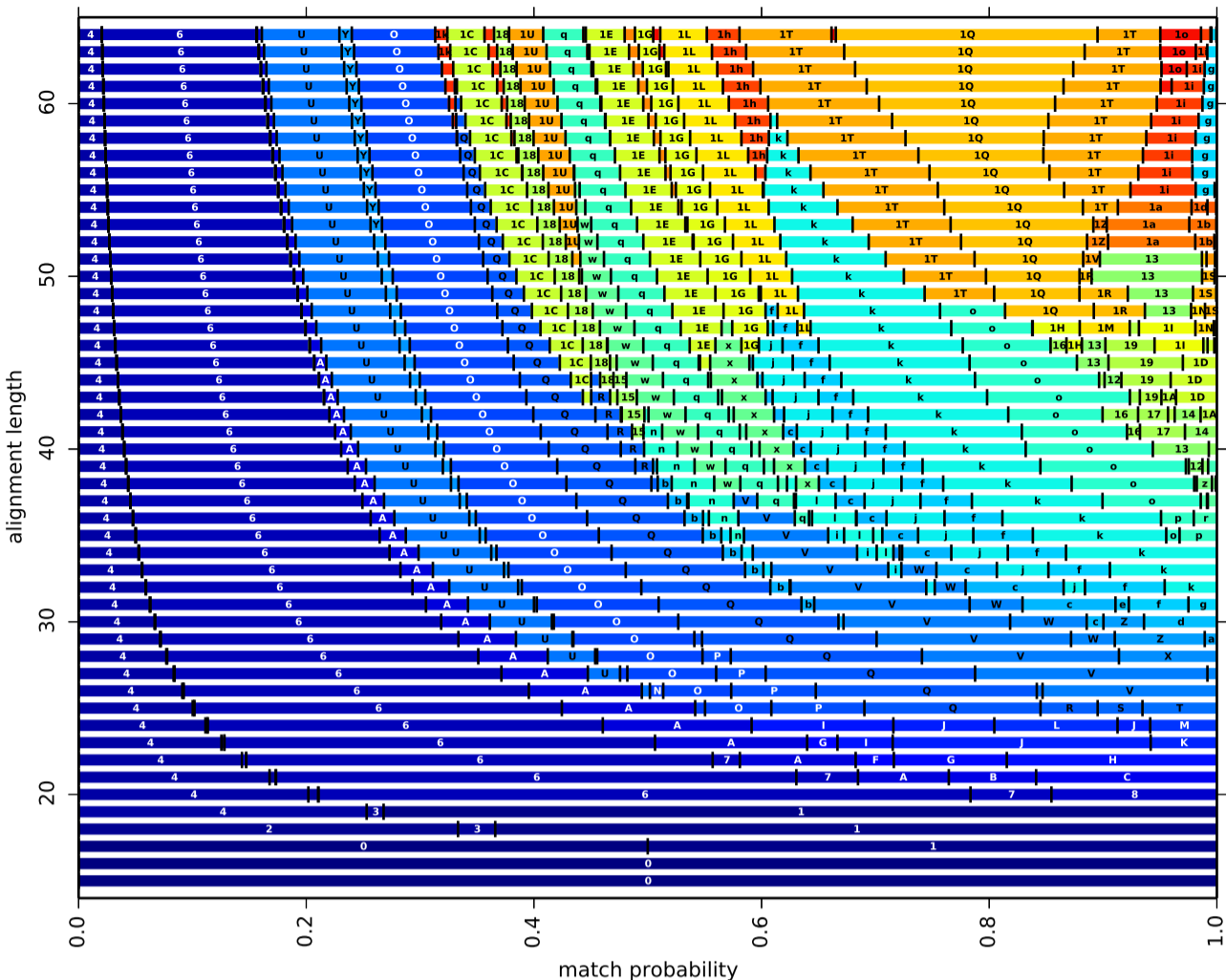


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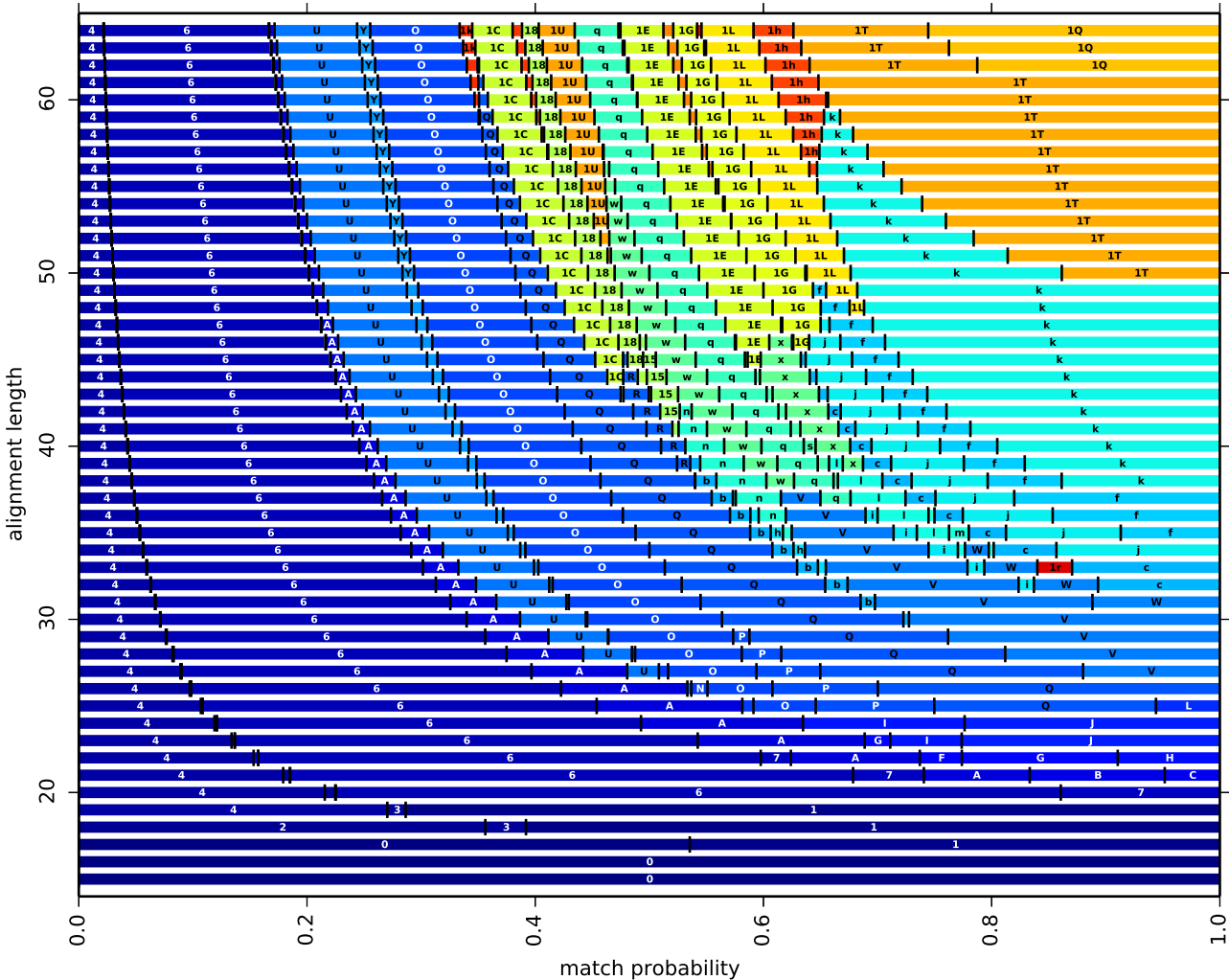
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Bernoulli (n:3,w:14)



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\int_0^x Hit Integration (n:3,w:14)

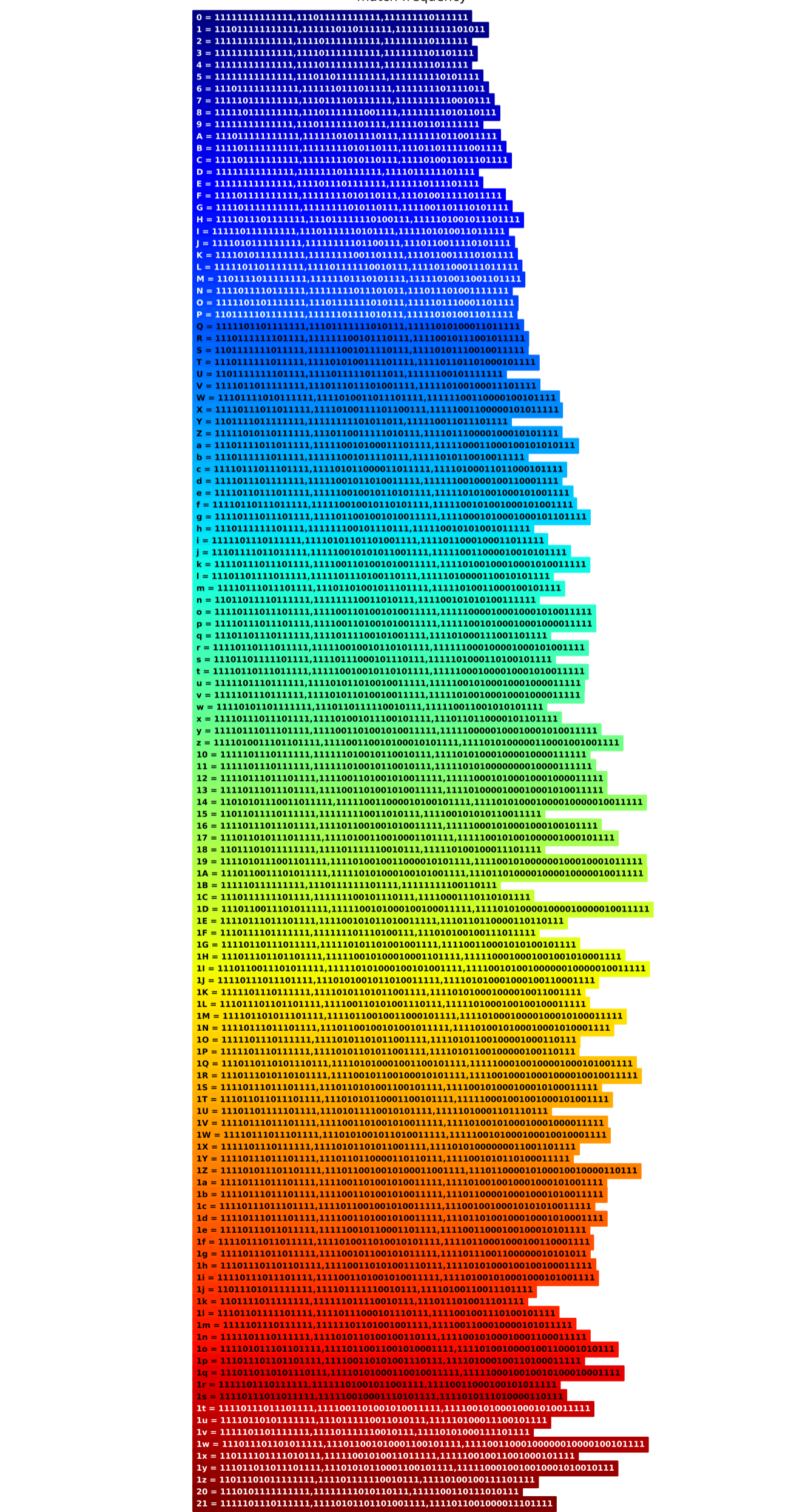
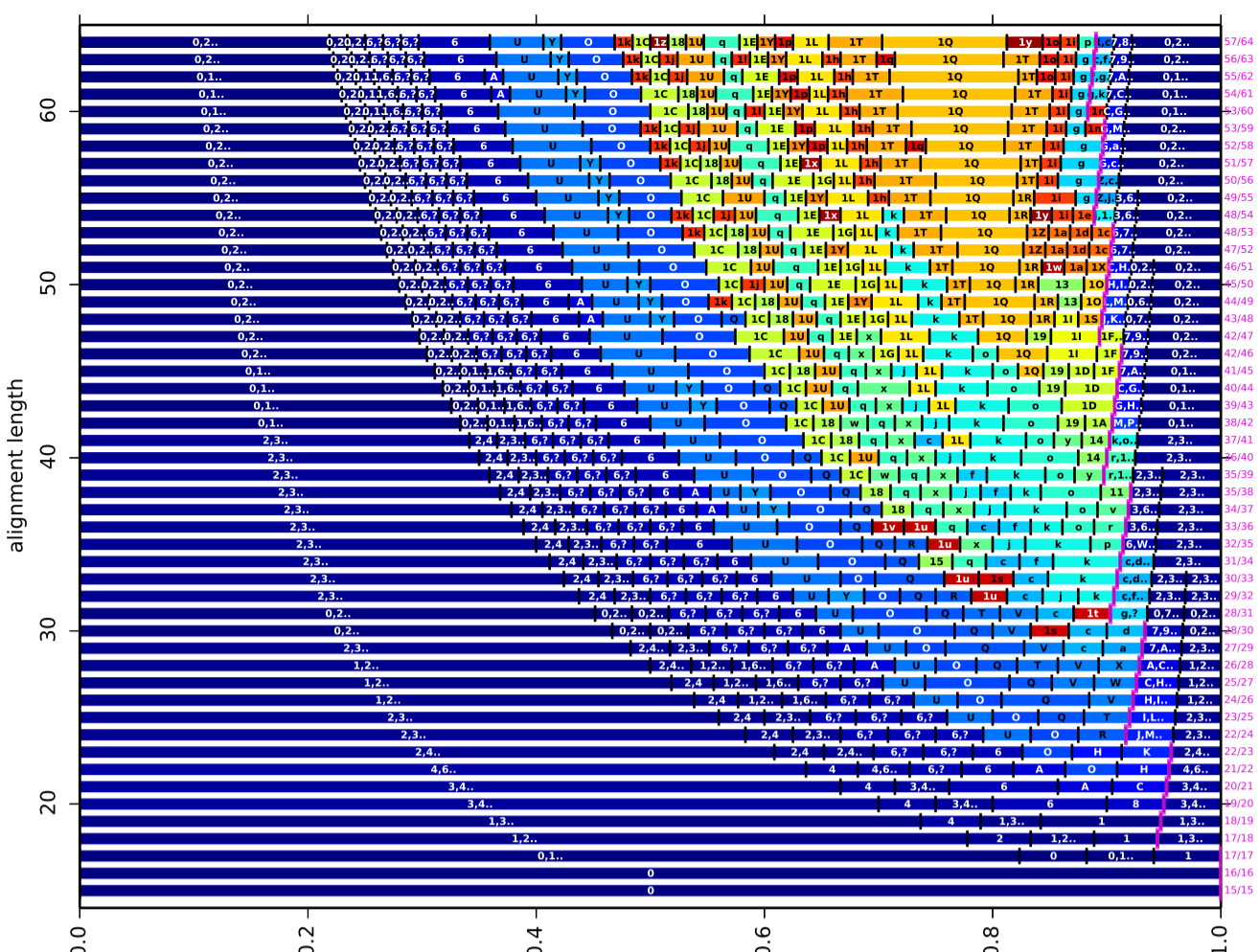


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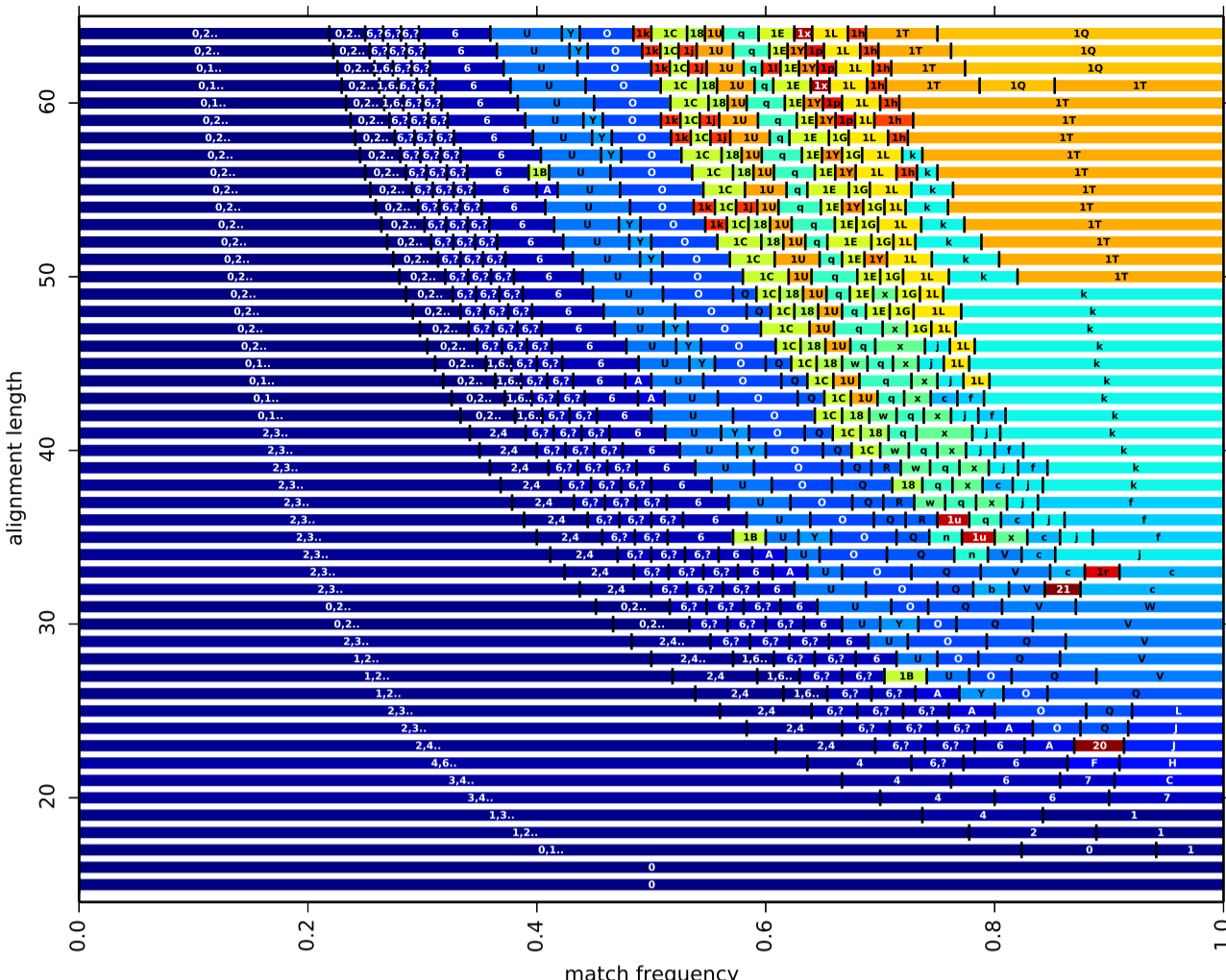
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Dirac (n:3,w:14)



$$\sum_0^x \text{Heaviside}(n;3,w;14)$$

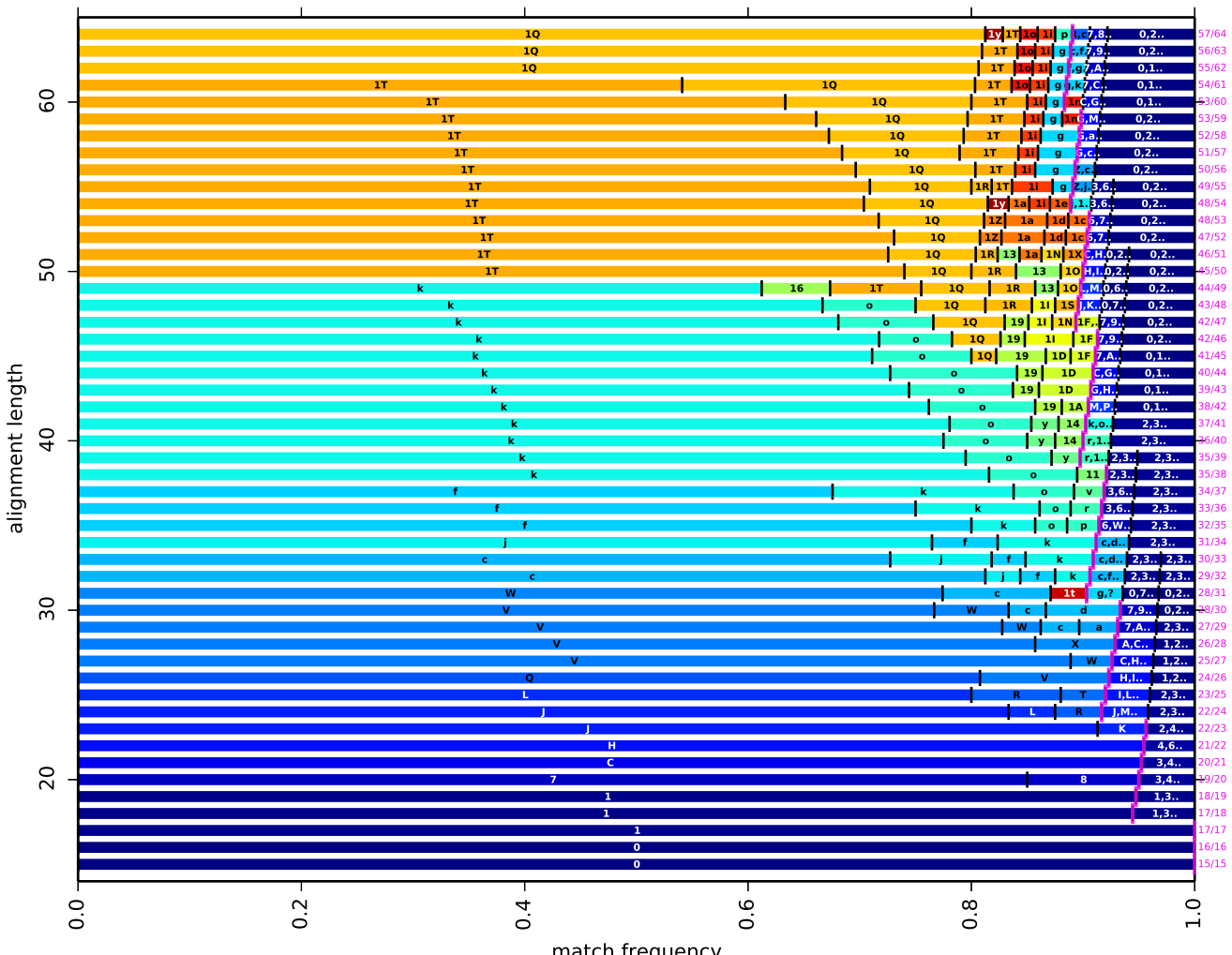


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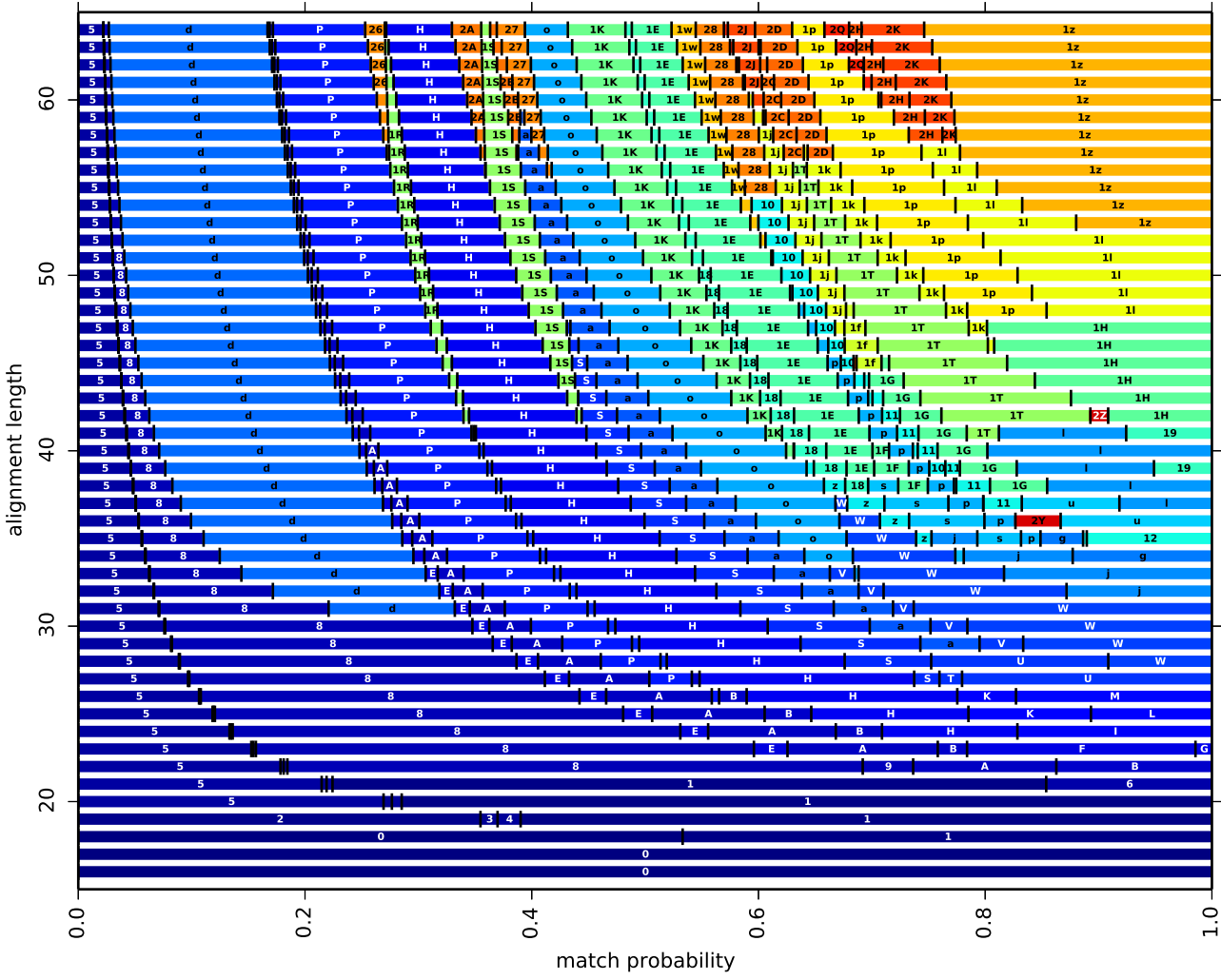
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\int_0^x Hit Integration (n:3,w:15)

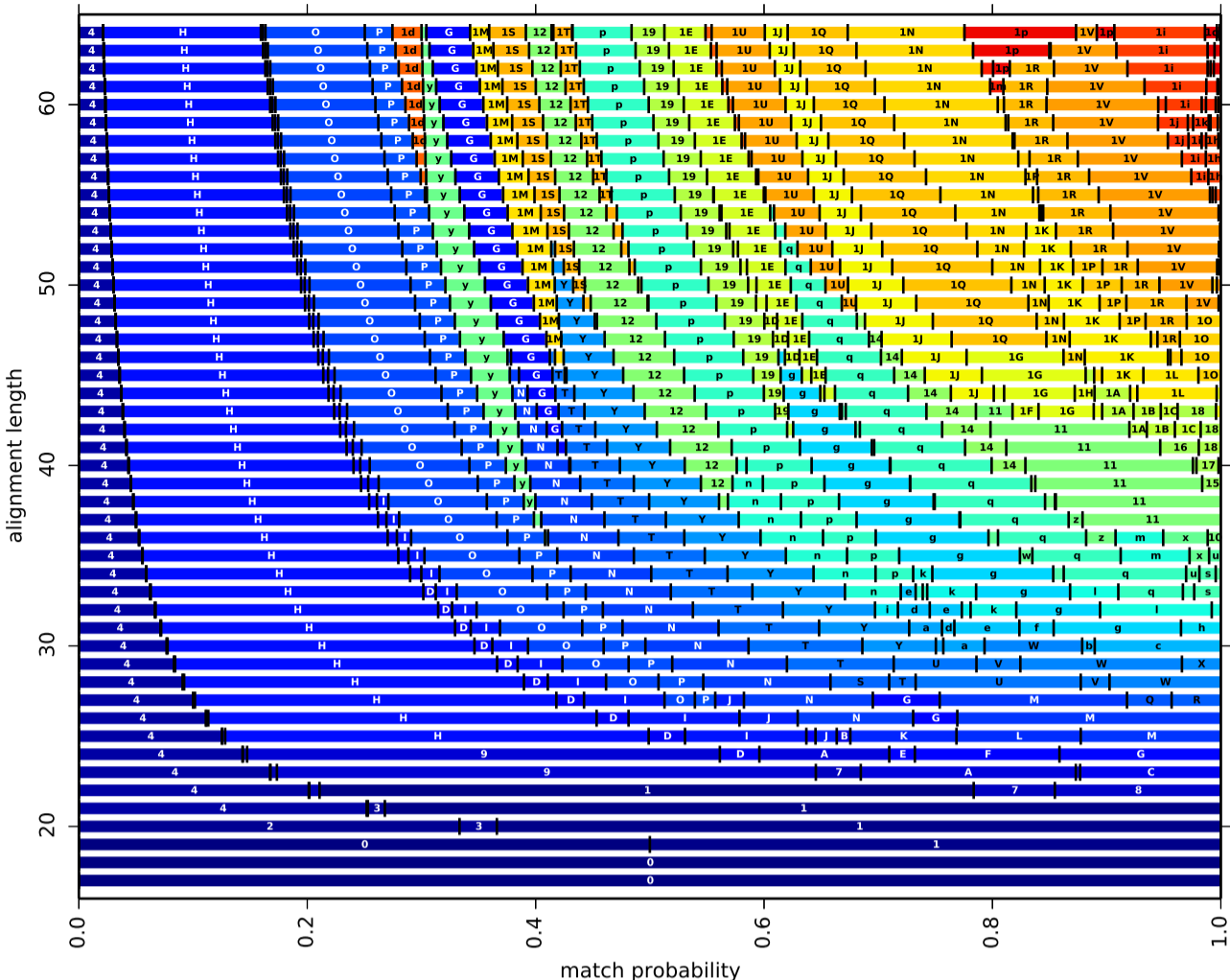


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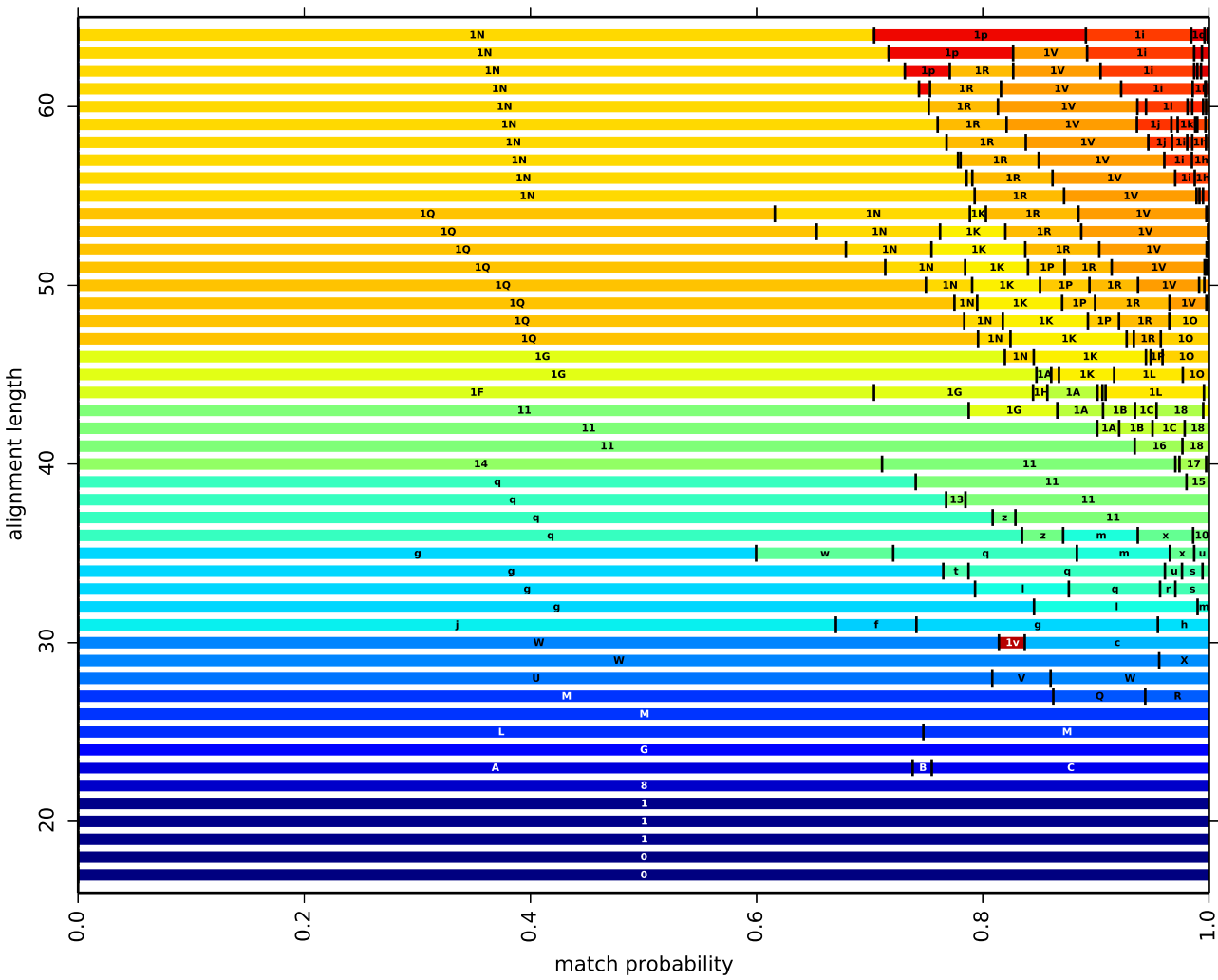
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Bernoulli (n:3,w:16)



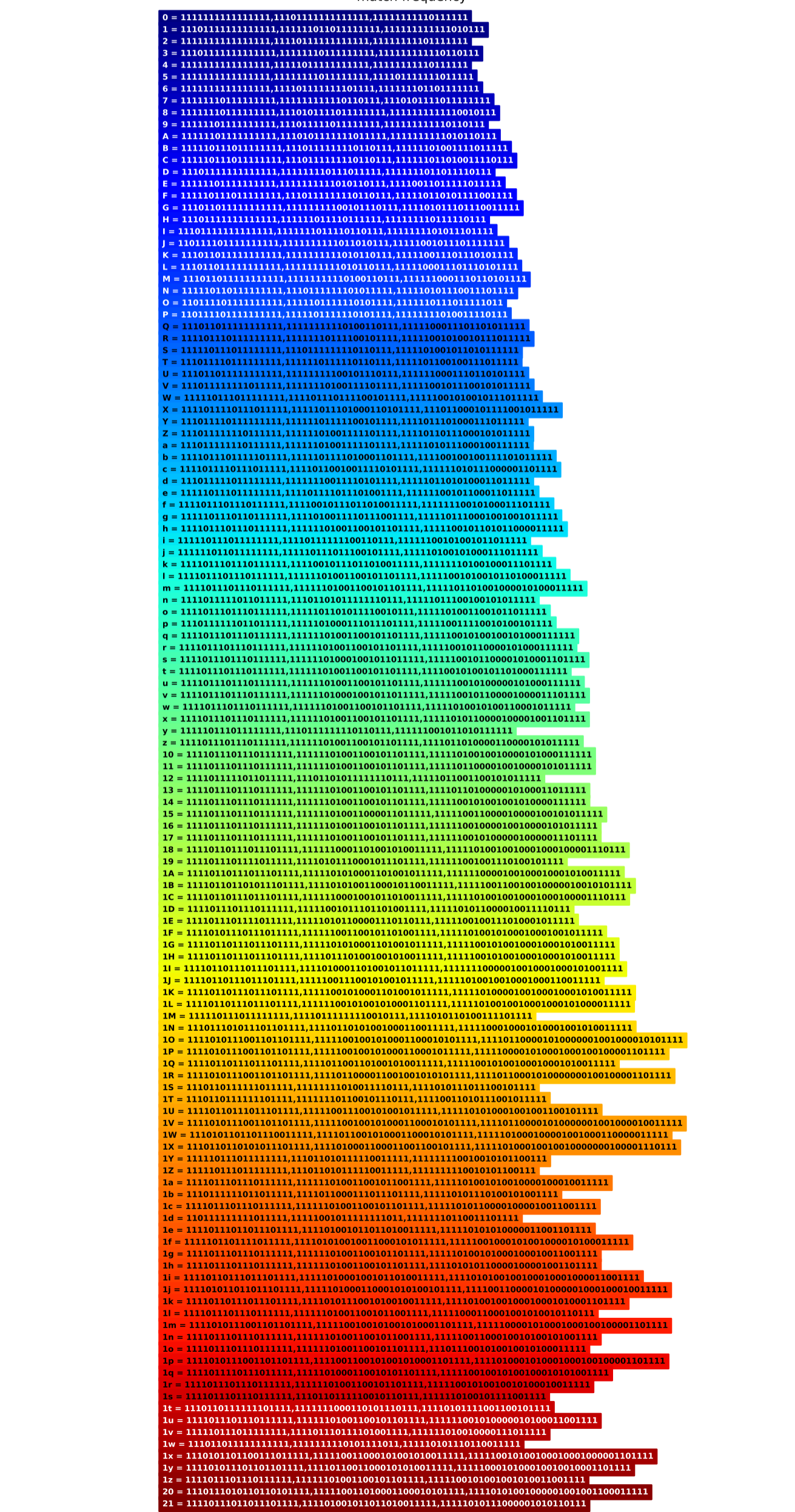
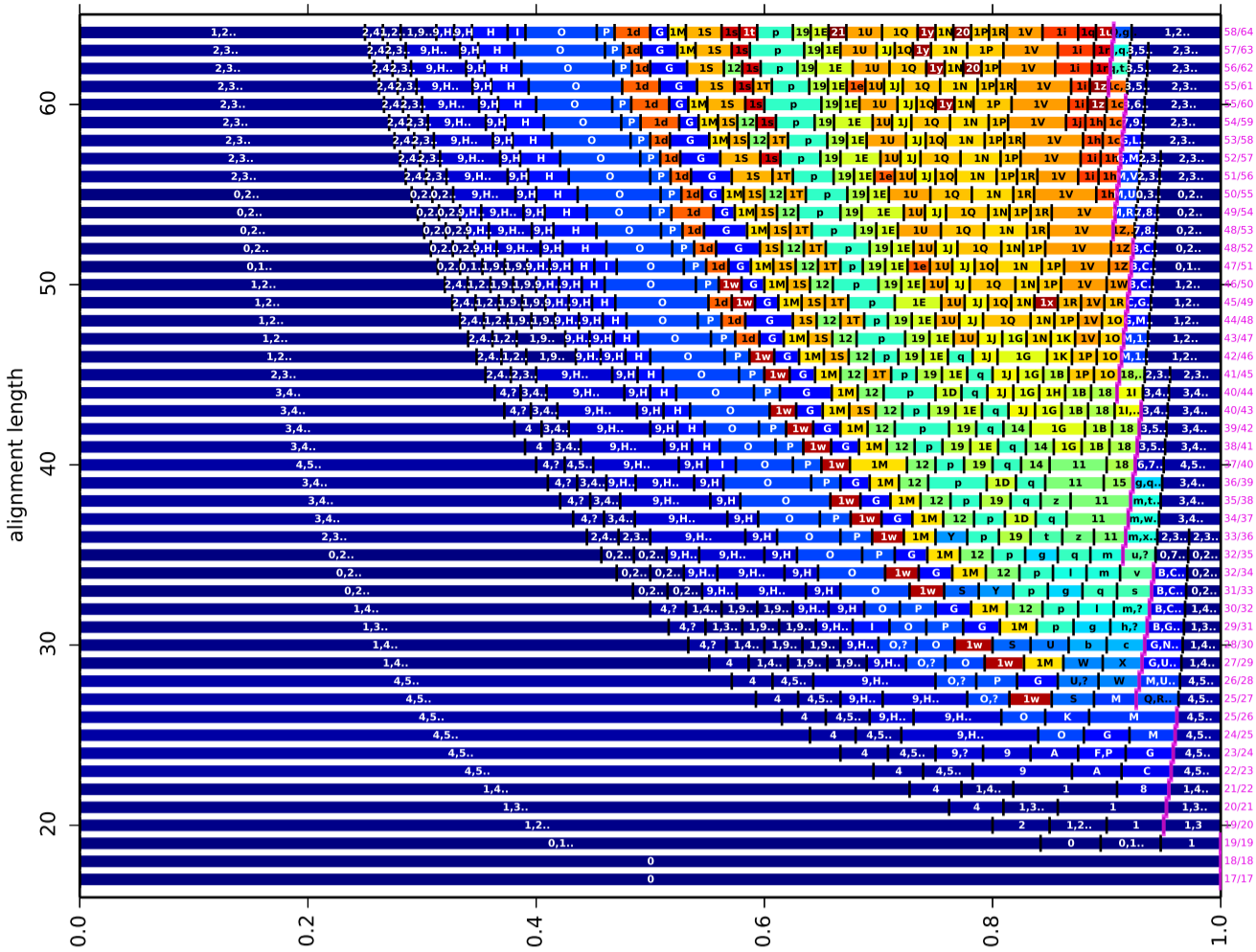
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y = 1111101110111111,111011111111010111,111111001011010111111
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1K = 11110111011101111,111100101000110100101111,11111010000100100010001010011111
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1d = 1111011111101111,11110010111110111,111111011001100111111
1h = 11110111011101111,11111010011001010111,1111010110000100001001101111
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\int_x^1 Hit Integration (n:3,w:16)

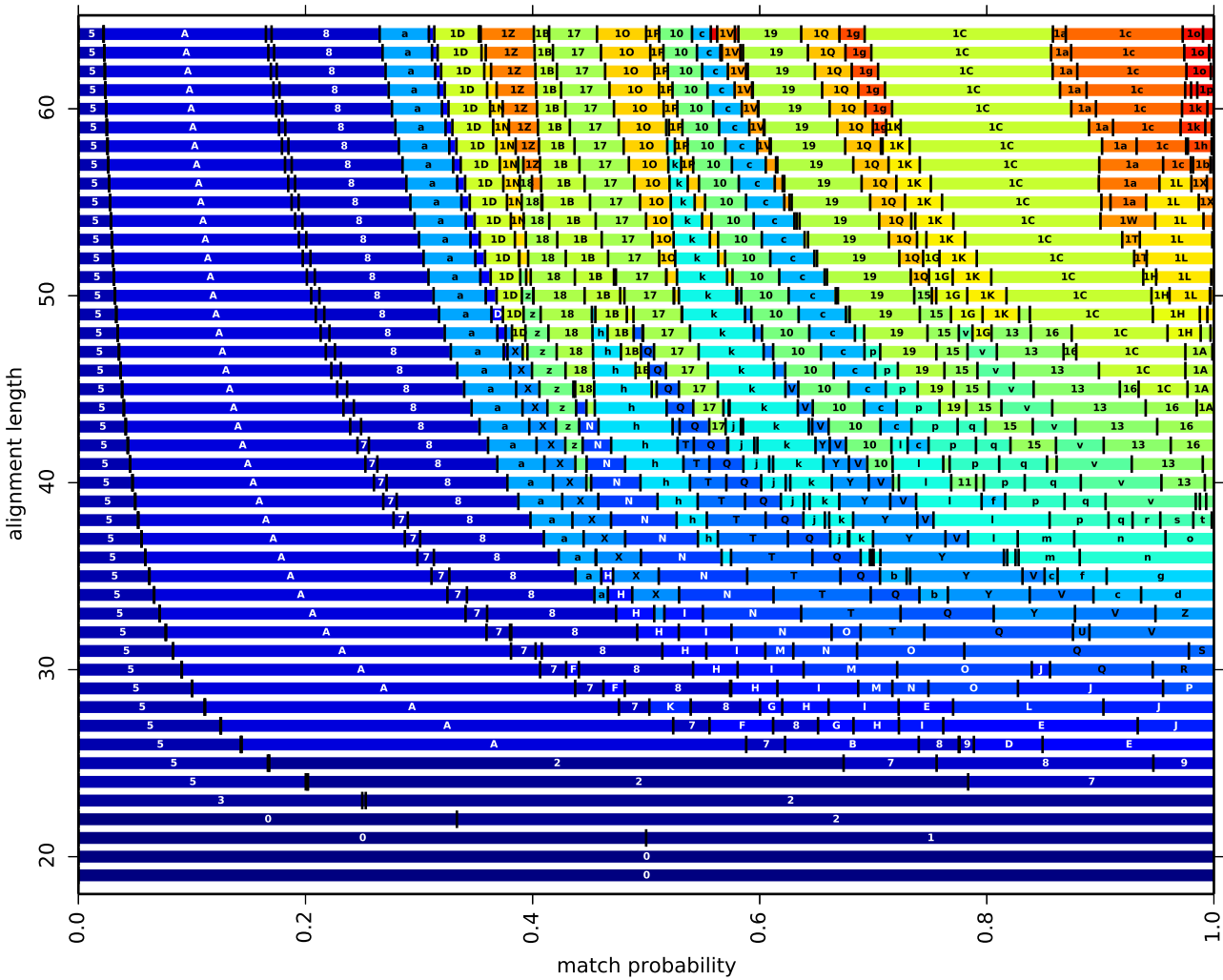


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 B = 1111101110111111,111011111110110111,111110100111011111
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 G = 1110110111111111,11111111100101110111,11110101101110011111
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 c = 1111011101110111,1111011001001111010111,111111010111000001101111
 f = 1111011011101111,1111001011101101001111,1111110010100011101111
 g = 1111011101101111,11110100111011100111,111101110001001001011111
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 t = 1111011101101111,1111110100110010110111,1111001010010110100011111
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 1B = 1111011101101111,111110100110001011001111,11111001100100100001001010111
 1C = 1111011101101111,111111000100101101001111,1111101001001000100001110111
 1F = 1111011101101111,11111100110010110100111,1111101001010001000100101111
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 1H = 1111011101101111,111101110100100101001111,11111001010010001000101001111
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 1R = 1111011100110110111,11111100001100100101010111,11110110001010000001001000110111
 1V = 1111011100110110111,1111100100101000110001010111,11110110001010000001001000110111
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 1j = 1111011101110111,1111101000110001010010111,111110010000101000010001001111
 1k = 1111011101110111,1111010111001010010111,1111010010010001000101000110111
 1l = 1111011101110111,1111101001100101100111,1111100010001000101001010111
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 1q = 1111011101110111,11111010001100101010111,1111100100101001000101010111
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Dirac (n:3,w:16)

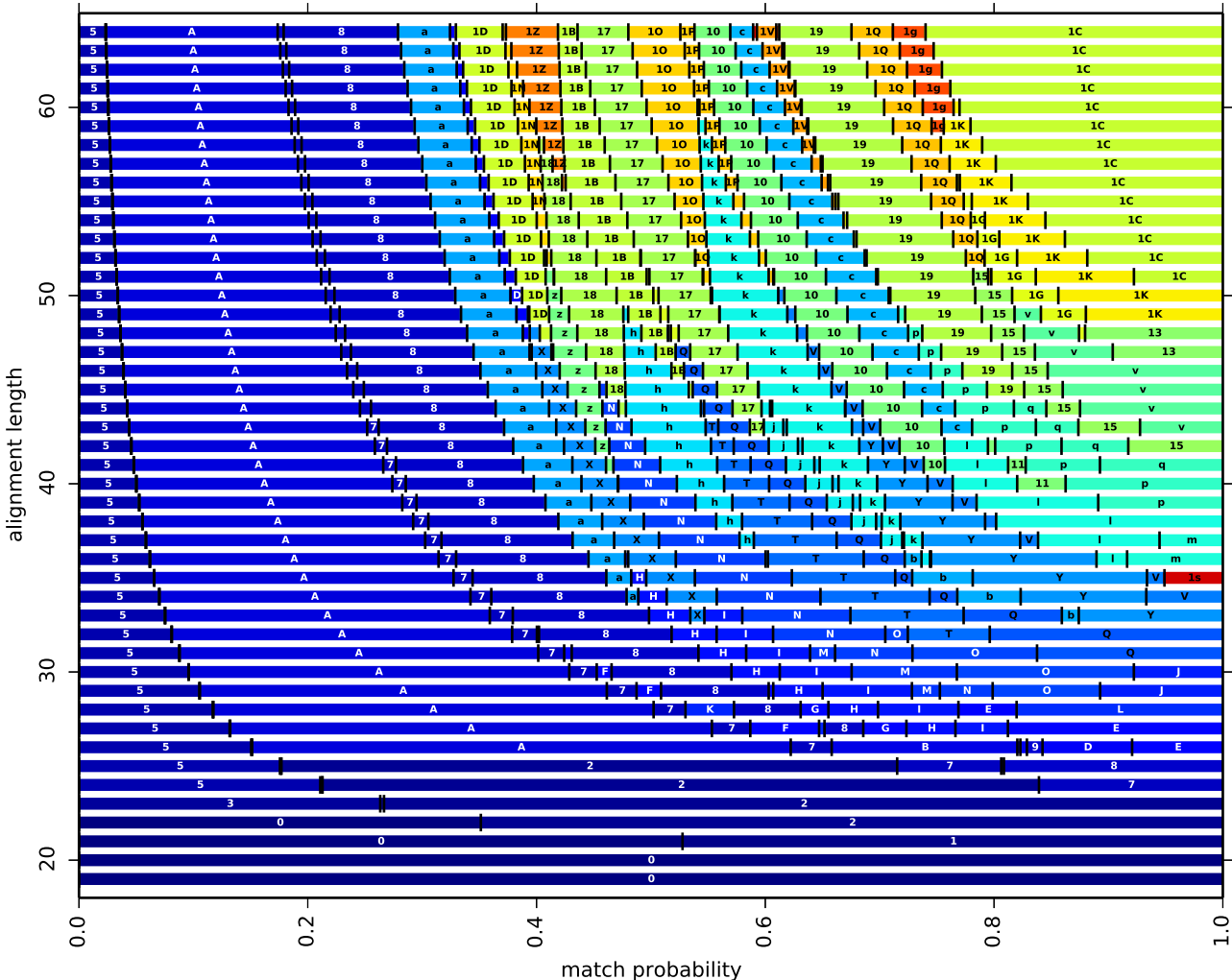


Bernoulli (n:3,w:18)



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3 = 111111111111111111,111101111111111111,111111111101111111
5 = 111111111111111111,111110111111111111,111111111101101111
7 = 111110111111111111,111111110111110111,11101111111010111111
8 = 111110110111111111,111011111101101111,11111111111011010111
9 = 111011111111011111,111110110110111111,11111110011110110111
A = 111110111111111111,111011111110111111,111111111011110111
B = 111110111111111111,1111011111011110111,111111111101011011
D = 111110111011111111,11110111111001110111,11111110011110101111
E = 111101110111111111,11111111111010110111,1111101001011011011111
F = 111101111111111111,11101111110011111111,111111110111010111
G = 111011111110111111,111110010111111111,1111111101111010111
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I = 111101110111111111,11111111110101110111,1111101001111011011111
J = 111101110111111111,11111111110010110111,111110100101101100111111
K = 111011111111111111,11111110010110111111,11111111110110101111
L = 111101110111111111,11111111110010110111,1111101001011011011111
M = 111101110111111111,11111111111010110111,1111101001011100111111
N = 111011111101111111,11111011011111011111,1111111011100011011111
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P = 111011011111011111,111111111110010110111,111110001001110110011111
Q = 111011011111111111,111111111110010110111,1111101001101100111111
R = 111011011011111111,11111011111010010111,111110010001110101011111
S = 111011011111011111,1111101110001101101111,1111100010111110010101111
T = 111011011111111111,111111111100101110111,11111000111011101011111
U = 11110110111110111111,1111110111000110110111,111110010110111001011111
V = 111011011111011111,1111101110001101101111,11111010010111001010011111
X = 111110110111111111,111101111110110111,111110110100111101111111
Y = 111011011111011111,1111101110001101101111,1111101010011111010101111
Z = 11110111101110111111,111110111011001010001111,11110110001011100111101111
a = 111011111110111111,11111111110111010111,111110010111111110111
b = 111110111101111111,11111011101111010111,111110101100100111011111
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g = 1111011011110111111,11111101011010011001111,1111010011000101110001011111
h = 111110111011111111,1111101111110100111,1111011001011110111111
j = 111011011111101111,111110111010010111111,111110111001110100101111
k = 1111011111101101111,111101110001011110011111,1111101011011100101101111
l = 1111011110111011111,11111101100101110010111,111110010101101000111011111
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p = 1111101110111011111,111101110010011100101111,111110100110100010011101111
q = 1111101110111011111,1111110010111010011010111,1111101100110000101100111111
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1D = 110111111011110111,11111001101111111011,11111101111010011111
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1O = 111101110111011111,11111011110100111010111,1111101001001111011011111
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1V = 1111011011110110111,111111011000100111010111,1111100110101110001001011111
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1X = 11110110101011101101111,11111101100011100100100111,111110100001000010100100101011111
1Z = 111011011110111111,11111111110111010101,11110101010111110011111
1a = 111101110110011011111,111101010011001000100011111,11111010001000010001001000110011111
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\int_0^x Hit Integration (n:3,w:18)

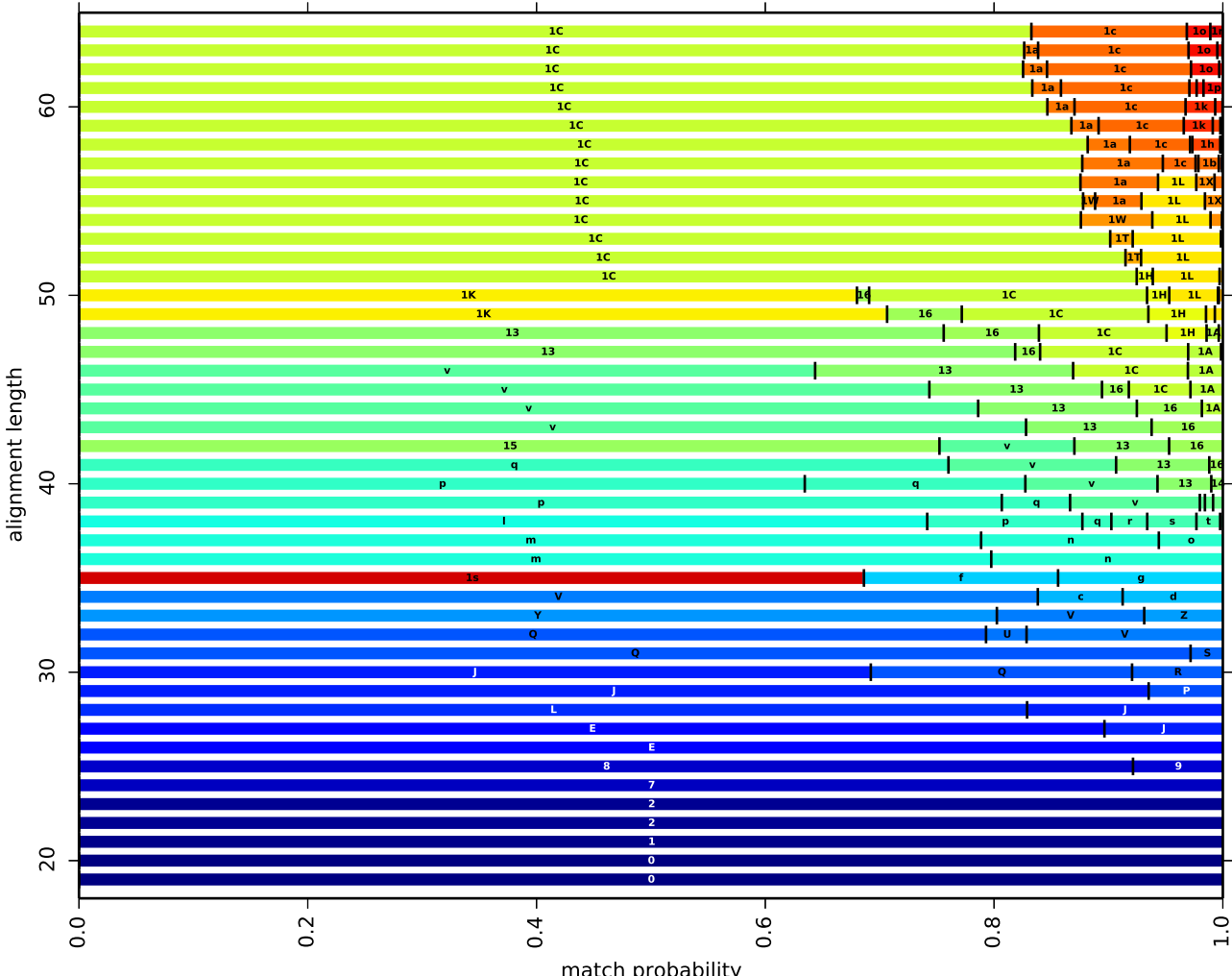


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1G = 11110110111101101111,11111101010100110010110111,1111101001010001100010011011111
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1Q = 11110111011110110111,11111010011010001001101111,1111110010100011100101000101111
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1Z = 111101111110111111,11111111111011011011,11110101010111110011111
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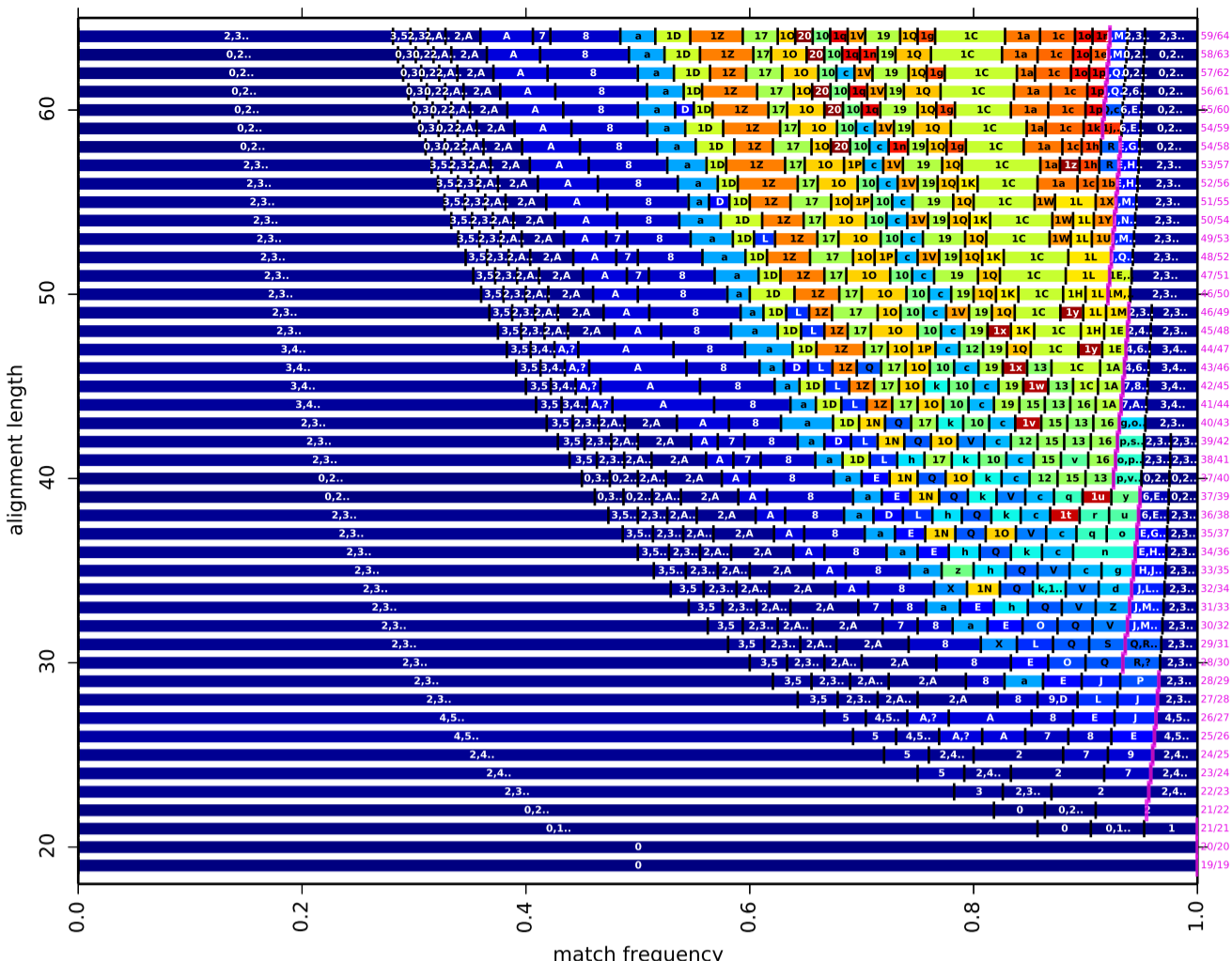
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\int_x^1 Hit Integration (n:3,w:18)



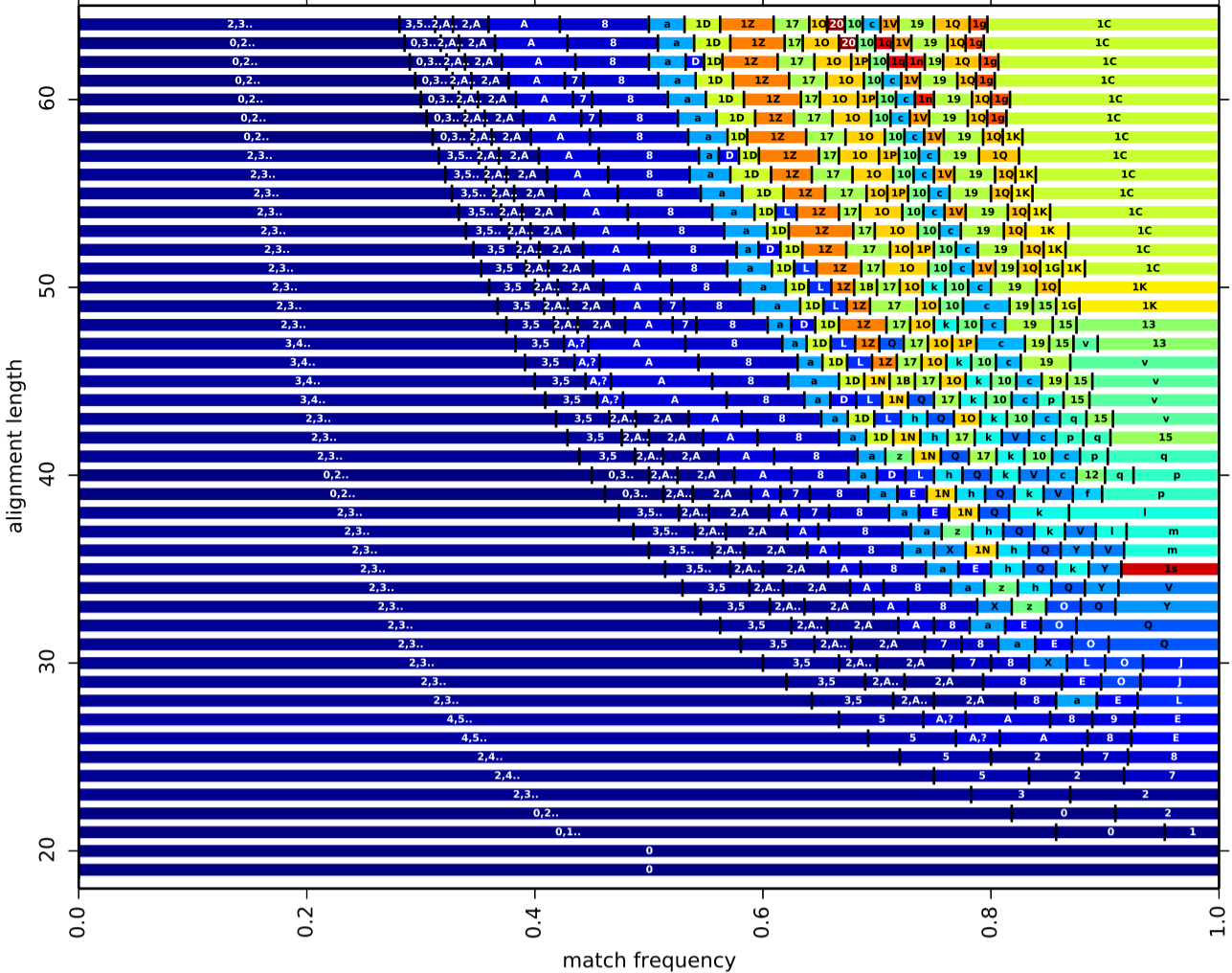
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 1p = 111101111011011111,111110101001101000101000111,111101000011001010000100011001011111
 1r = 111101111011011111,11101100110100110101111,1111010101001010000100110001011111
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Dirac (n:3,w:18)



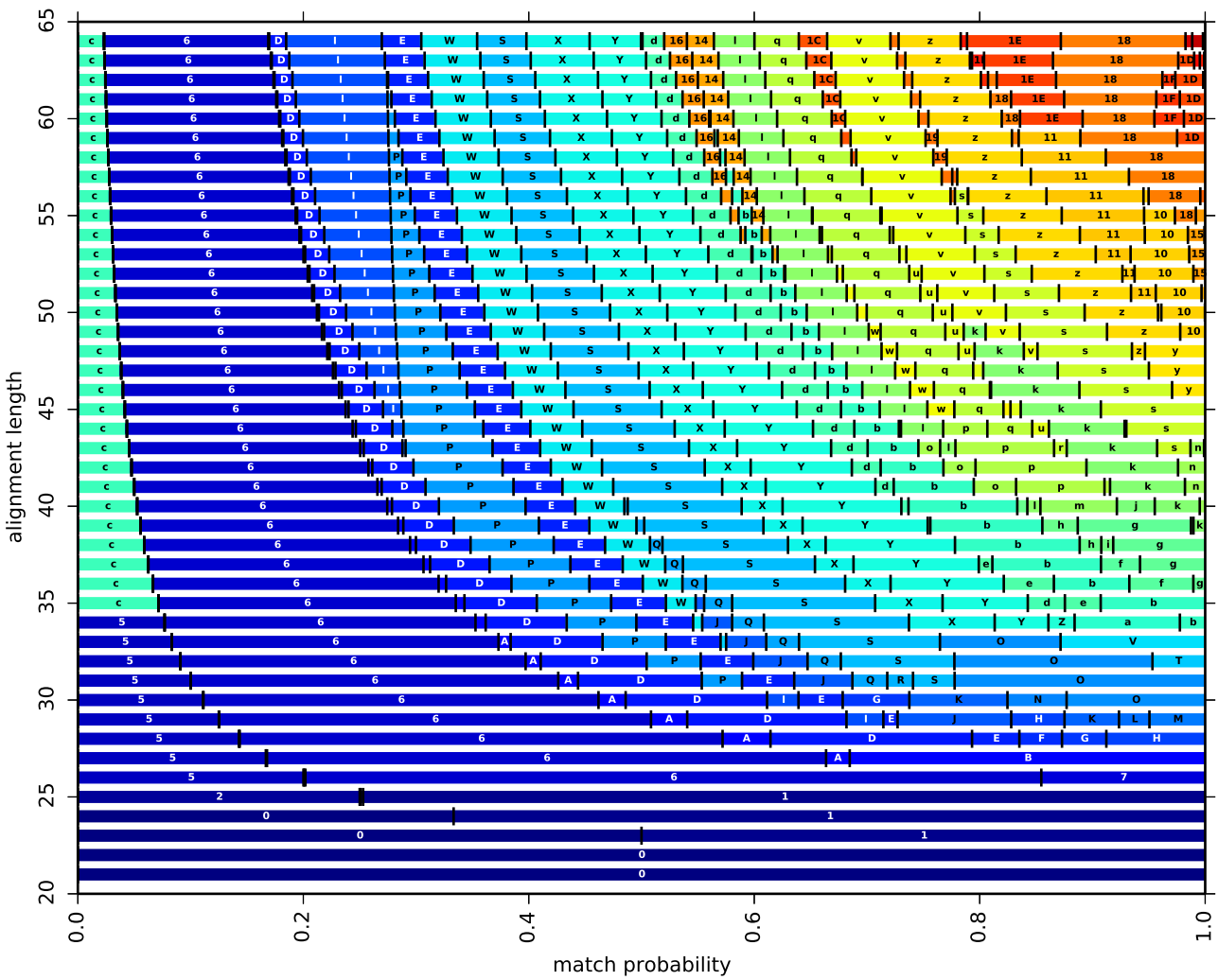
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6 = 111111111111111111,111011011111111111,111111111011101111
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8 = 111101101111111111,110111111101101111,1111111111011101011
9 = 111011111110111111,11111011101101101111,111111100111011011
A = 111110111111111111,110111111110111111,111111111011110111
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C = 111110111110111111,110101101111111111,1111111110111101011
D = 111101111011111111,1110111111100110111,1111111001111010111
E = 111011111011111111,111111111101011011,11110100101101101111
F = 111101111111111111,110111111100111111,111111101111010111
G = 111011111110111111,111111001011111111,111111110111010111
H = 111011111110111111,111110101111111011,111111110011010111
I = 111011101111111111,111111111101011011,111101001110101111
J = 111011101111111111,1111111111001011011,111101001011011001111
K = 111011111111111111,111111010111011111,1111111111011010111
L = 111011101111111111,1111111111001011011,11110100101101101111
M = 111011101111111111,111111111101011011,11110100101110011111
N = 111011111101111111,111110110111110111,11111101011000101111
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R = 111011011111111111,111111011111010011011,1111100100011010101111
S = 111011011111011111,111110111000110110111,111100010111100101111
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1C = 111011011011011111,11111001010001100010101111,111100101001010000100010101111
1D = 110111111011101111,111100101111110111,1111101110110100111111
1E = 11101110101110101111,11110100101010010001100111,1111010000100010100010000111111
1F = 111011011101111111,1111111001111010111,11110010111011001101111
1G = 111011011101101111,111110101010011001010111,1111010010100001000101101111
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1J = 111011101111010111,1111001011010001011111,1111100110001011001010111
1K = 111101101110110111,111101010011010010110111,11110101001001001000111111
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1N = 111011101111111111,111111111100101011,11110100101101101111
1O = 111011101111011111,111101110100111010111,1110100100111101011111
1P = 111101110110111111,11101101110100101111,111010100110111101101111
1Q = 111011101110110111,111101001101000100101111,11111001010001100010100010111
1R = 11110101101100110111,111101100010100100001111,11110101001000100010001010011
1S = 1110111100110101111,111010001010110011001111,11111010010001000010001010010111
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1U = 1111010111001101111,11111010001101000101000111,1111000101001000010001011111
1V = 111011011111011111,1111011000100111010111,1111001010111000100101111
1W = 1111011011001101111,11101010010111000110010111,11110100110001000000101010011111
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1Y = 11110101001101101111,1111001010001101010010111,111110010101000100001000011111
1Z = 111011011110111111,111111111101010101,111101010101111101111
1a = 11101110101100110111,1110110101001100100010100111,111101001100001000100010011111
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1f = 111101111011101111,111011100100110110010111,11101101111001011000111
1g = 111011011101110111,1111101011000110010100111,11101100001010100011001001111
1h = 11110111011011111,11110101001101000101000111,1111000011001010000100010101111
1i = 111011101101101111,111011000110001101010111,11110110100010000100101001111
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1y = 11110101100101110111,1110101001100010010010111,1111010010001000000001010011111
1z = 1111011011101001111,111100100010001001010111,111101011000000001000100101111
20 = 111010101111011111,1110111110010101011,1111101000101101010111
21 = 111110111011011111,1111011010100111001111,111110010001001001010101111

$$\sum_0^x \text{Heaviside}(n:3,w:18)$$



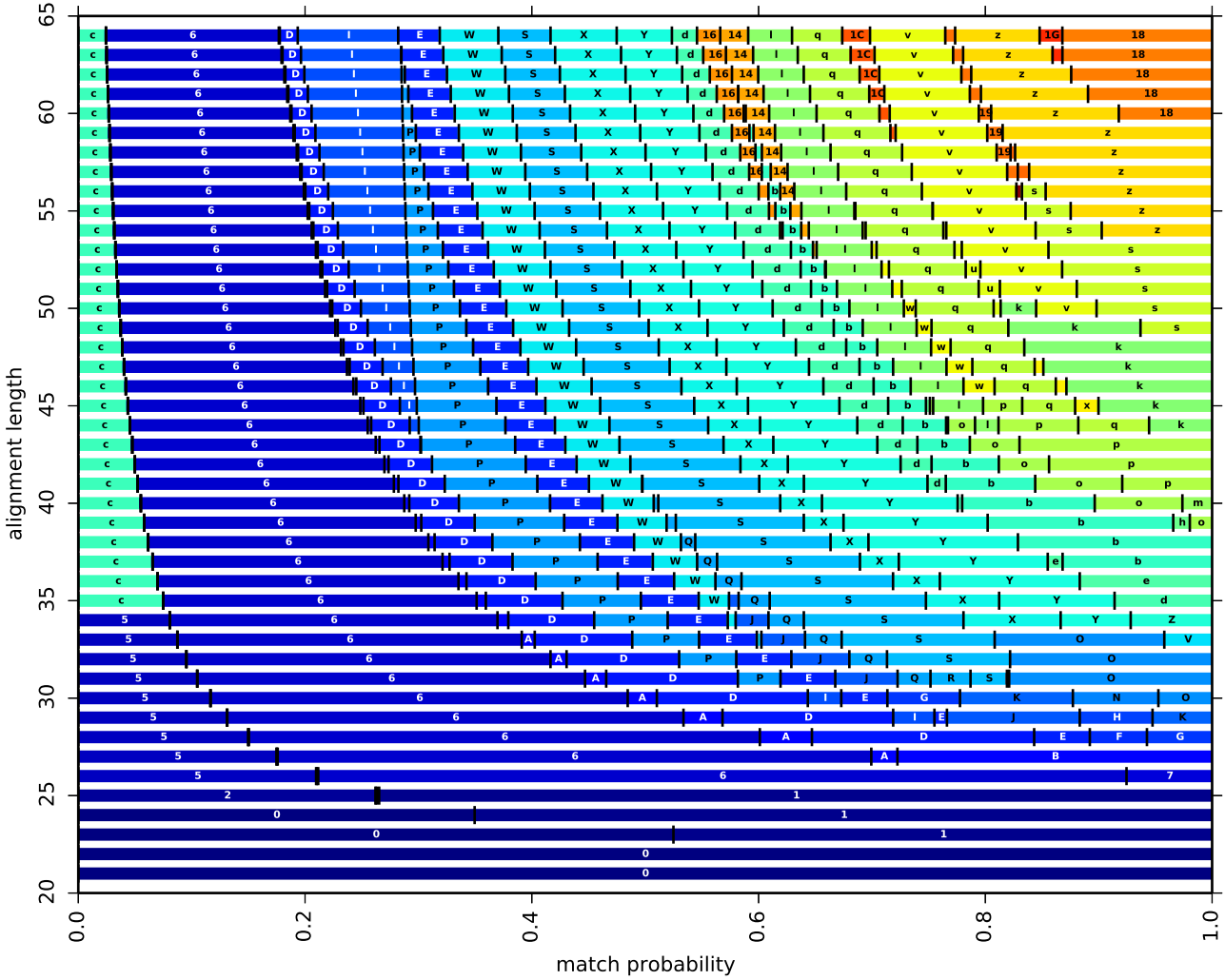
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F = 11111011111111111111,1110111111100111111111,1111111101111010111111
G = 11101111111101111111,11111100101111111111,1111111111011101011111
H = 11101111111011111111,1111101011111111011111,1111111110011010111111
I = 11110110111111111111,111111111110101101111,111110100111101101111111
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y = 1111101110101111011111,111111001011000110010011111,1111011001100101000110100101111
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1J = 11101110111101101111,1111100101101000110111111,1111100110001011001010101111
1K = 1111101101110111011111,111110101001101001001101111,1111101001000100100011000111111
1L = 11110111000110111011111,1111101001001001010100010111,1111110000101000100001001001011111
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1k = 11111011110110111111,1111101010011010001010011111,11111000011001010000100010001011111
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1r = 11110111101110111111,111101100110100110101111,111101010100101000010010001011111
1s = 11101101111101111111,111110111000101101111,1111110010010110010101111
1t = 11111011110111011111,11110101000100111001011111,111110101110001001101111
1u = 11111010111011011111,1111110010111110010100111,1111101001000010001001101011111
1v = 11110110111010111111,1111101010011110110010111,111110110010010000101010111
1w = 111101101111011011111,11111010011010001001011111,111110010010011100100100101111
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1y = 11110110110010111011111,111101001110001100100101111,111110100100010000100001010011111
1z = 11110110111011011111,11111011000011000100101010111,111101011000000100010010010011111
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21 = 11111011110110111111,1111101101011001110011111,111110010100010010010101011111

Bernoulli (n:3,w:20)



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6 = 11111101111111111111,11110111111011111111,11111111111110101011
7 = 11111101111111111111,11110111111010111111,1111111111011111010111
A = 11111101111111111111,11110111111011111111,11111111111101010111
B = 11111011111111111111,11101111111101011111,1111111101011111011111
D = 11111011111111111111,11101111111011011111,1111111101011111011111
E = 11111011101111111111,11110111111011110111,1111111101111101001111
F = 11110111011111111111,111011111101110110111,1111110111010101011111
G = 11110111011111111111,11111111111011110111,1111010101111100111111
H = 11111011101111111111,11111111011110101110111,111101101011111100111111
I = 11011111011111111111,11111101111010111111,1111111111111001011111
J = 11110111111111111111,1111111111101011110111,111101101011111100111111
K = 11110111011111111111,111111111111010110111,1111011010110111001111111
L = 11110110111111111111,1111111111100101101111,1111011100111101101011111
M = 11110111011111111111,1111111111011110110100111,1110100111011111001111111
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O = 11110111011111111111,1111111111110010110111,111110100101110110011111
P = 11110110111111111111,11101111111101011111,1111111111001111010111
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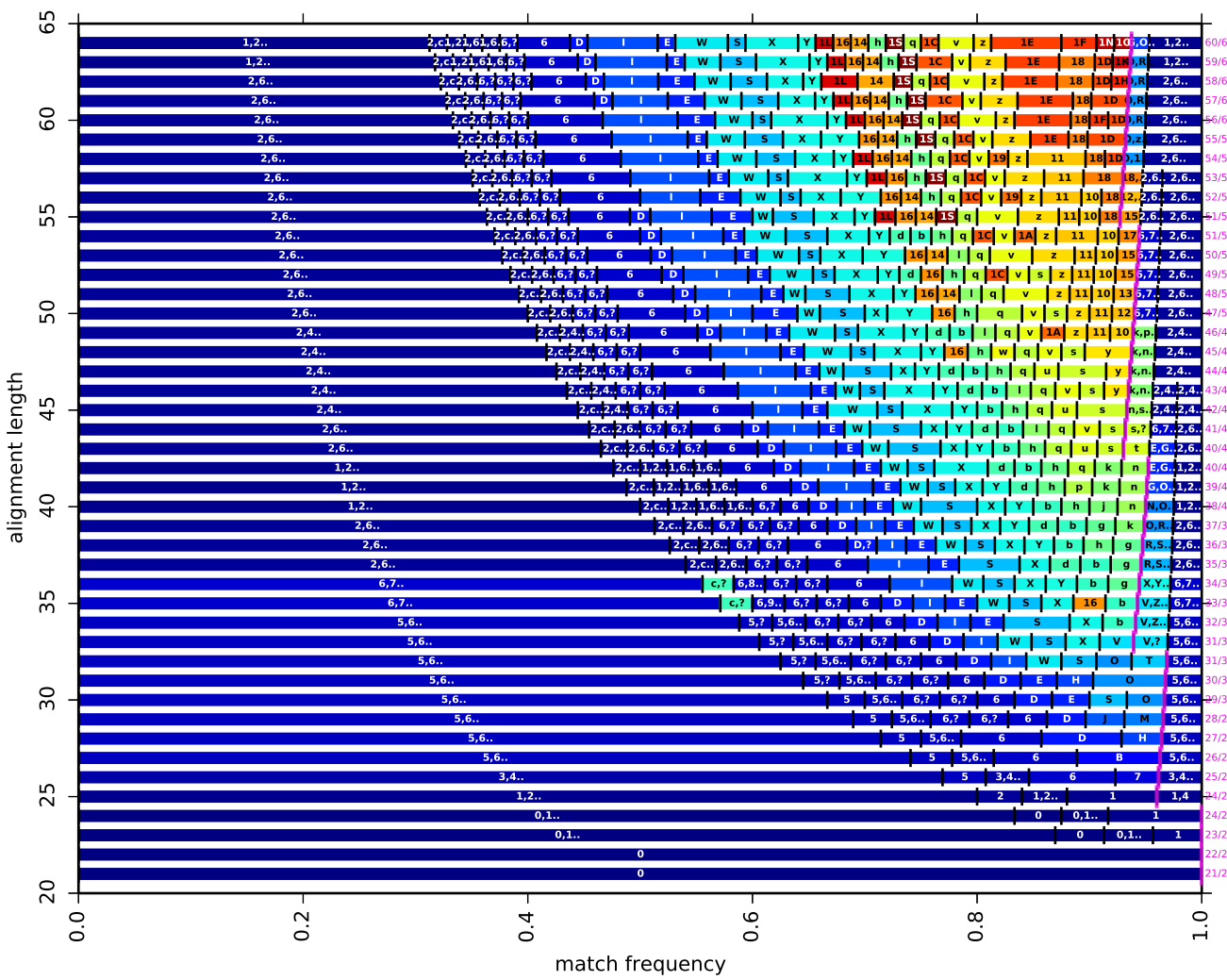


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1C = 1111011101101110111101111,111101101011101110001001011111,11110110111000001011001011011111
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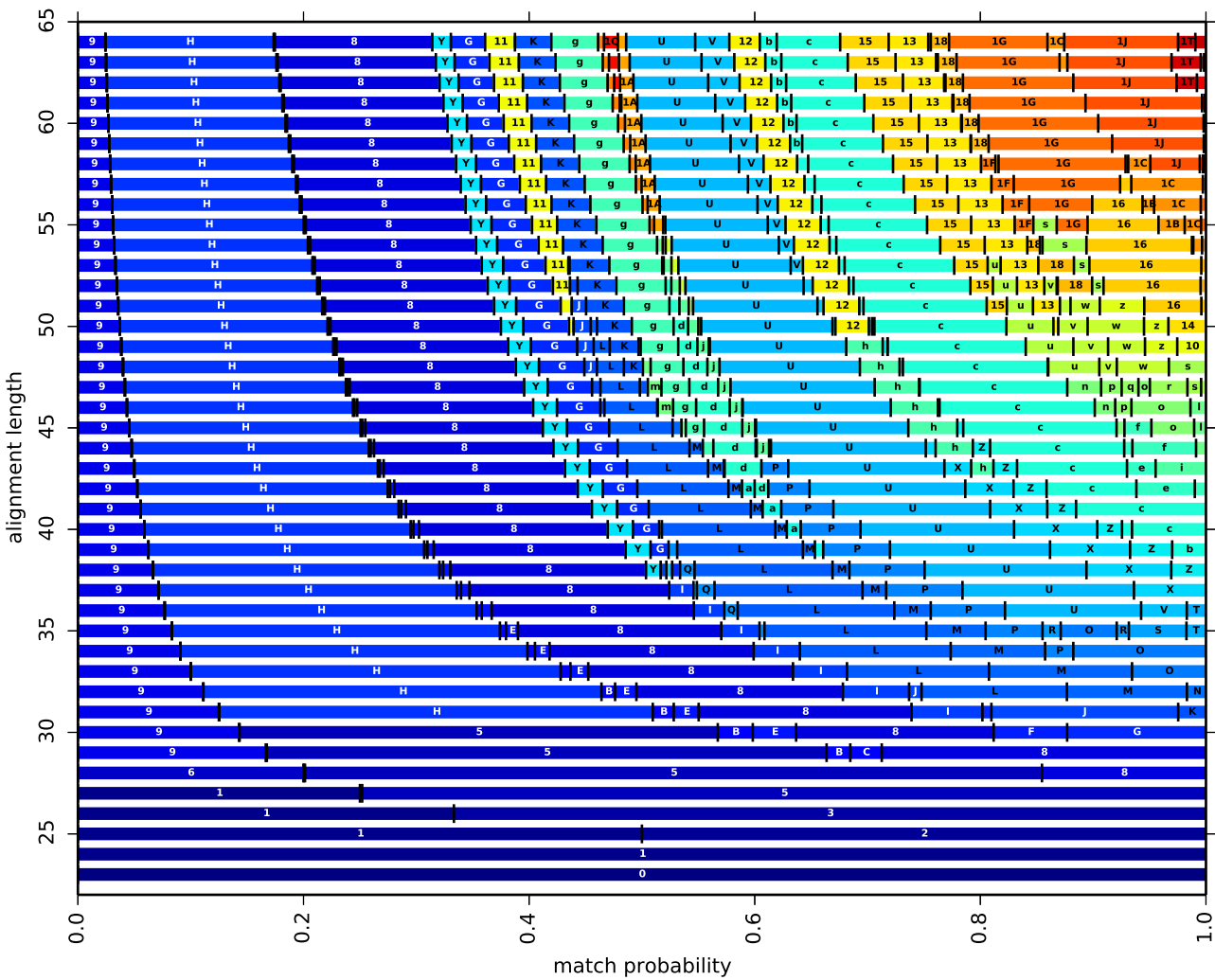
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Dirac (n:3,w:20)



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C = 11111111111111111111,11111111101111111111,11110111111101111111
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1L = 1111011011111011111,111111111010100110111,111100100101010110111
1M = 11110110111011011111,1110111001001010101001001111,1111010110010000110000101001011111
1N = 1111011110111011111,1111101001010011010111,11101101000010000100001010011001111
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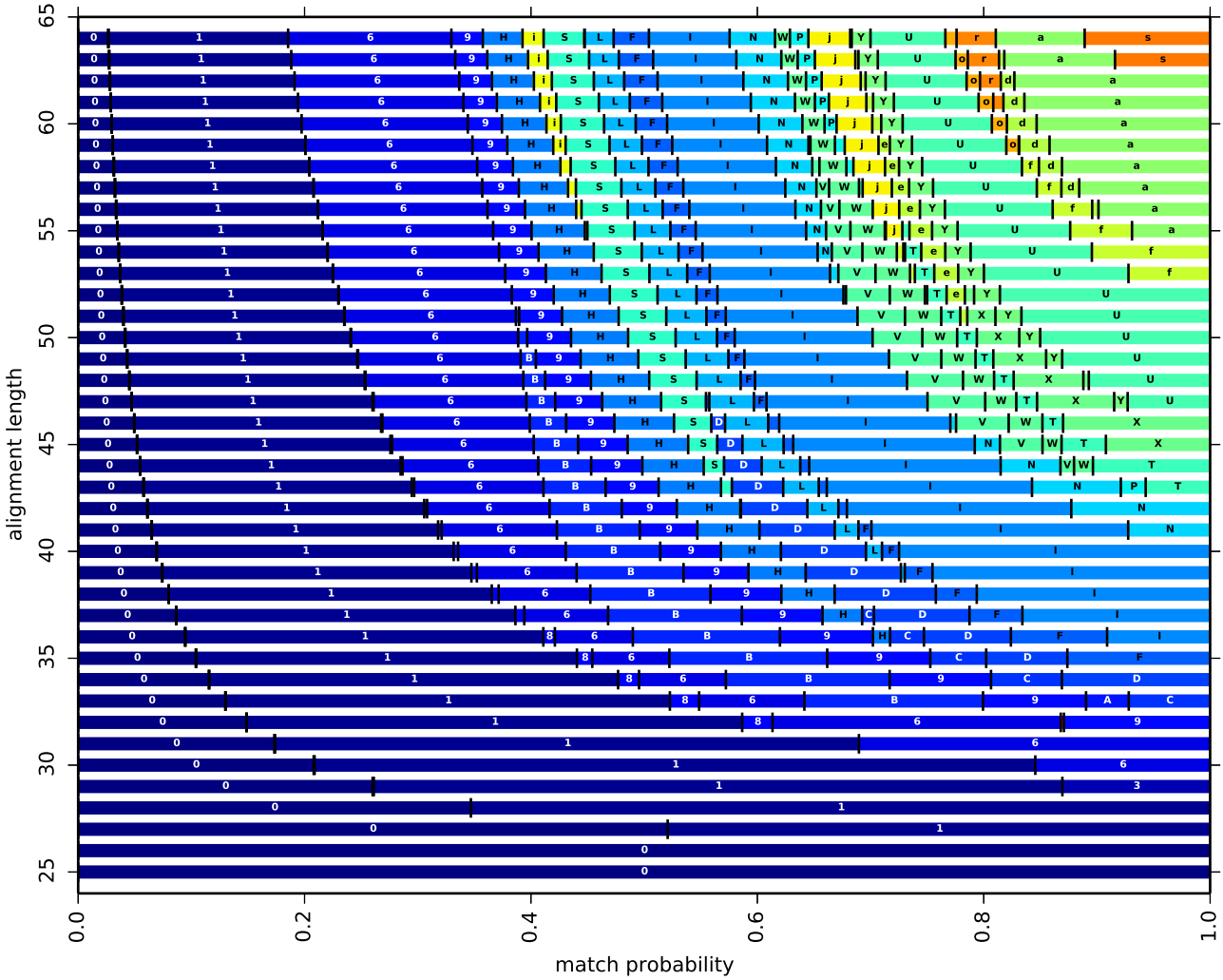
Bernoulli (n:3,w:22)



match probability

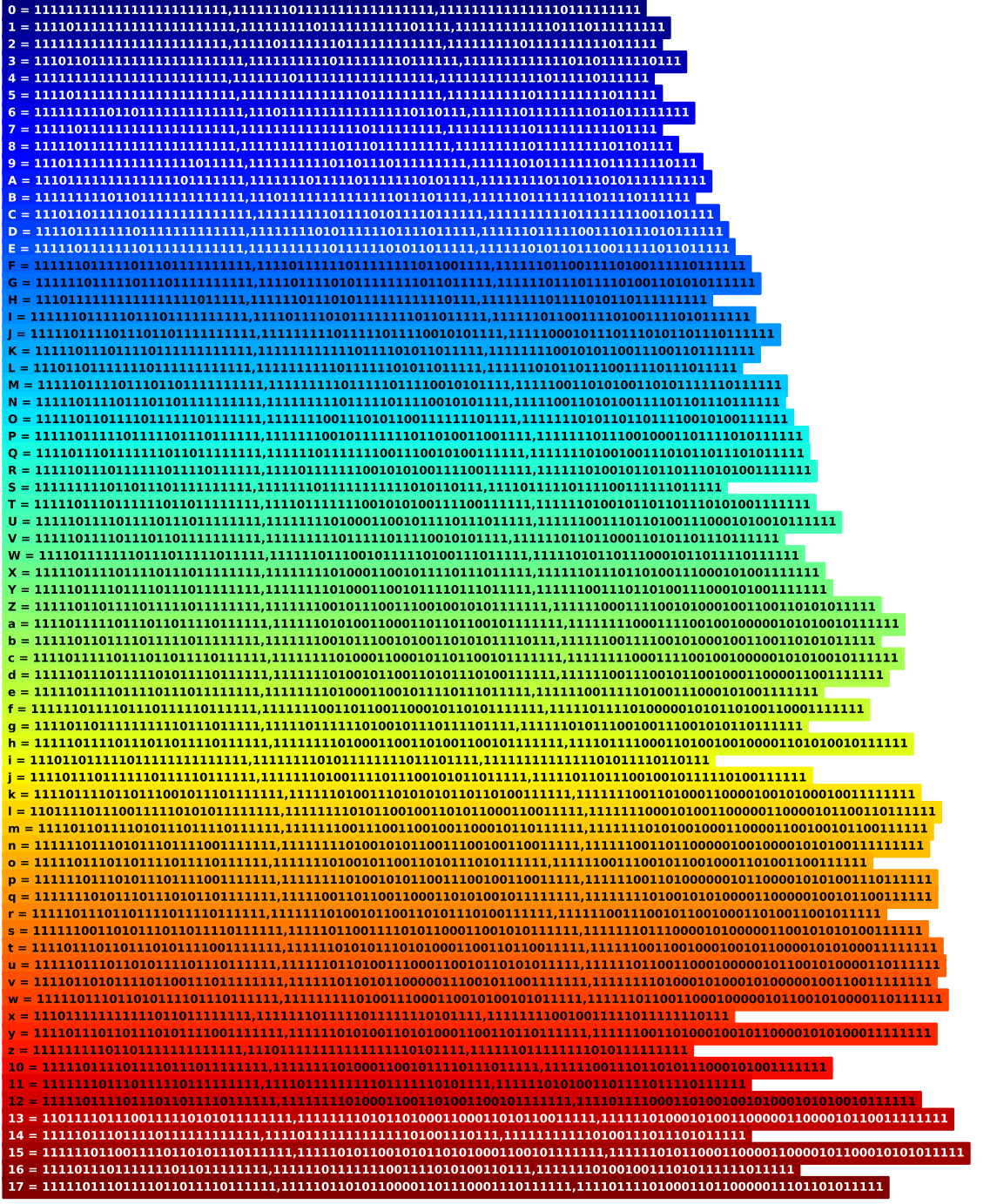
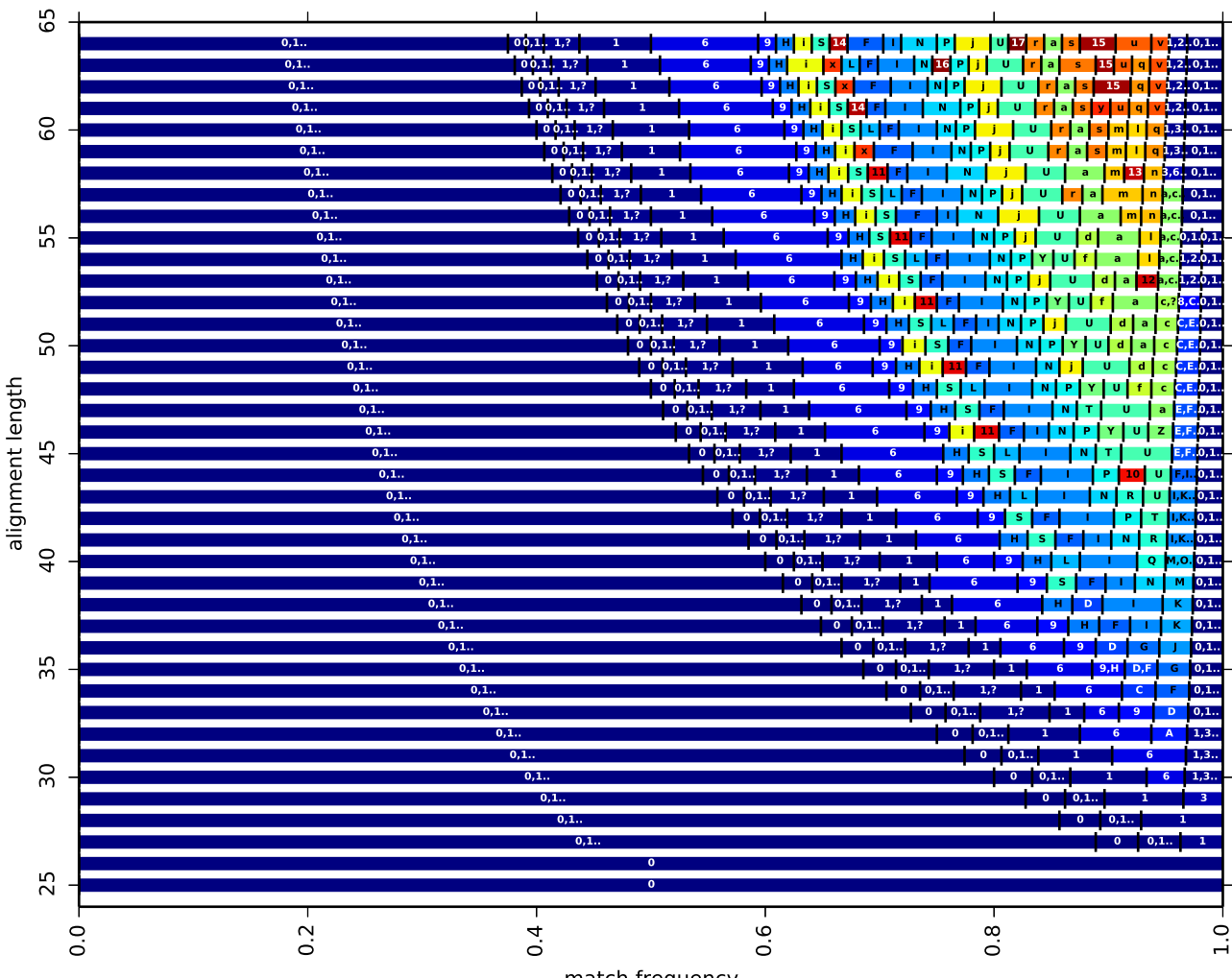
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5	11101111111111111111,1111111011101111111111,11111111111101101111
6	111111111111111111,11111011111111111111,11111111111101111111
8	11101111111110111111,11111101101111111111,1111111111110111010111
9	111111111111111111,11111101111111111111,11111111111101111111
B	11111011111111111111,11111111011011111111,111101111111111101101111
C	11110111111111111111,11111111011011111110111,1111111111110110111111
E	11101111111111111111,1111111101011111110111,1111111111110110101111
F	11111011111111111111,11101111111111110110111,1111111111110100111110111
G	11111011101111111111,11101111111111110110111,111111111111010110110111
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I	11111111011011111111,1110110111111111101111,111111110111111001101111
J	11110110111111111111,111111111110010111110111,11111101111101111001011111
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L	11111011111111111111,111111111110110110110111,11111011010110111001111111
M	11111011011111111111,11111111111001101101111,1111100101111011100111111
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Q	11101111101111111111,111111011111100110111111,111111101110111011101111
R	11101101101111111111,111111111111100101101111,1111101001011011101100111111
S	1111101110111011101111,1111110111111011001011111,11101101001111010111011111
T	1110111111011101111111,1111010110010100111111011111,11111001111101101101001010111
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V	1111011110111011101111,11110110010100111111011111,1111011011011011010010101111
X	1111101111011101111111,11111010110010111110011111,1111110110110110100010110011111
Y	11111101110111111111,1111011111110111110111,111011111111111001011111
Z	1111011011101111011111,1111001000111101101011111,111110111111010010001011011111
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b	1111011011101110111111,111101101111010011001011111,11111010011000101110101011111
c	1111101101110111011111,11111100111101010011101111,111111010100100011100100111011111
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h	1111011110111011101111,1111110101111100110110011111,11111010110010110100111101111
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l	1111011110111011101111,11111110101001110010101001111,11111001010100101000100010101011111
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1J	11110111010100110110101111,111111001101000100010001010111,11111100110001000010000101101011111
1Q	1110110101111110111111,111111111101100111101011,11111100111100111010101111
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\int_0^x Hit Integration (n:3,w:24)

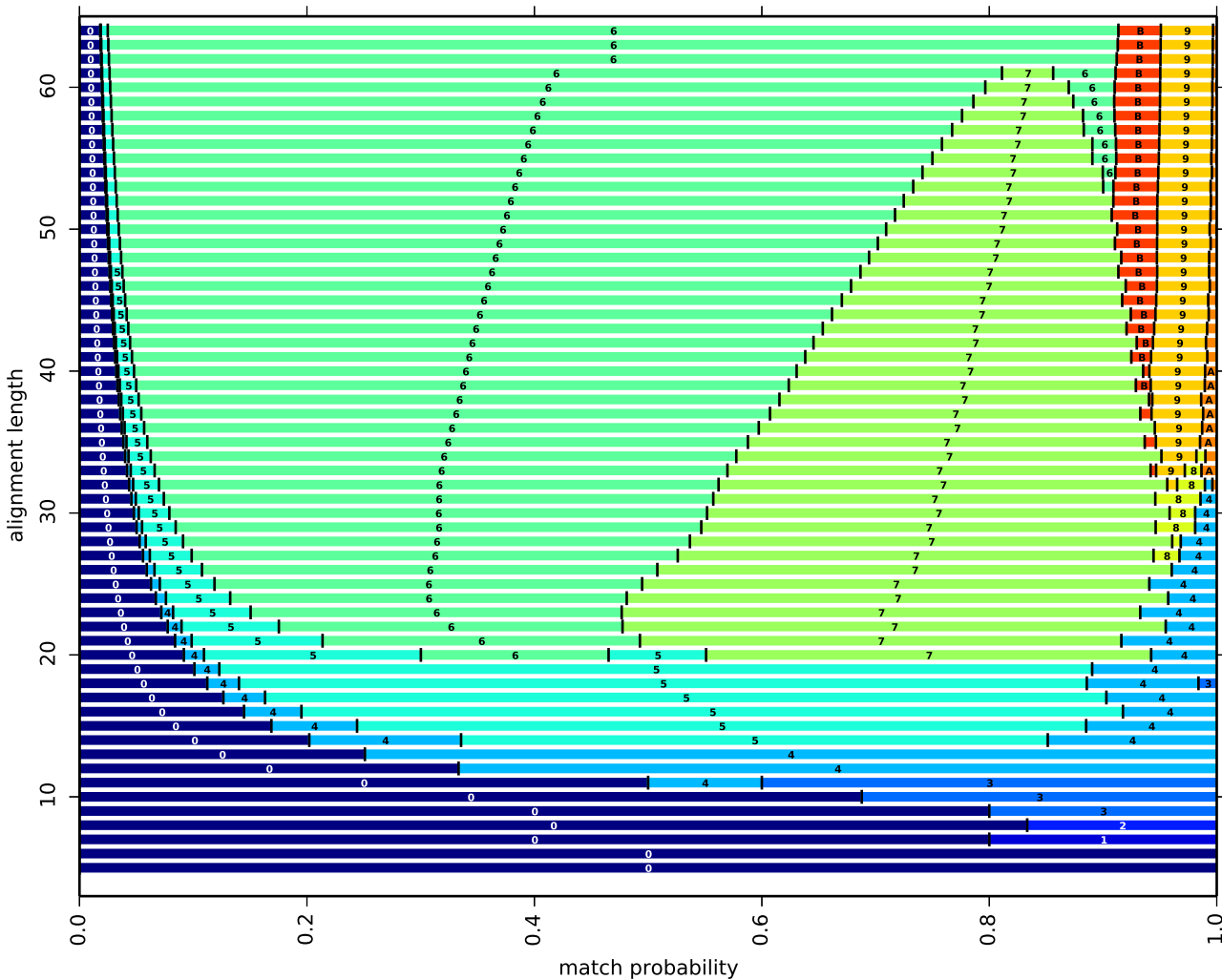


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8	111101111111111111,1111111111011101111111,111111110111111101101111
9	11101111111111110111,1111111101101101111111,111111011111011111110111
A	11101111111101110111,111111110111110110110111,111111110110110110111111
B	11111111011011111111,1101111111111101101111,111111011111110111011111
C	11101101111101111111,111111110111010111011111,11111111011111110011111
D	11110111110111111111,111111110111110111011111,11111101111100111011011111
F	11111011111011111111,11110111110111111011001111,1111110110011101001111011111
H	11101111111101110111,11111011100101111111110111,111111101110110110111111
I	11111011110110111111,11110111101011111101101111,11111101100111110100111111
L	11101101111101111111,11111111011111011011011111,1111110101101110011101101111
N	11110111101101101111,11111111011101110010101111,111100110101001111011011011111
P	1111011110111101101111,11111100101111110110011001111,111111011100100010111101011111
S	11111110110111011111,111111011111111101011011,1110111101110011110011111111
T	1111011101111101101111,1110111111001010001110011111,111111010010110111010100111111
U	1111011101110110110111,111111110100011001011101101111,11111100110110100111000101001011111
V	11111011101110111111,1111111101110111110010101111,1111110110100010101110111111
W	1111011111011011011111,111111011001011111010011101111,111110101101100010110111011111
X	1111101110111011011111,1111110100010001011101101111,1111110110110011100010100111111
Y	1111011101110111011111,111111110100010010111011011111,11111100111011010011100010100111111
a	1111011110110110110111,1111110101001100010110110010111111,111111110001111001001000010101001011111
d	111110111011101011011111,11111101001011001010110100111111,1111100111001011000100001100111111
e	111110111011011011011111,111111110100010001011101101111,11111100111101001110001010010100111111
f	1111101110110111011111,11111110011011001000101101111111,1111111101000001010100110001111111
i	11101101111011111111,111111110111111101101111,11111111111110101110110111
j	1111011011110111011111,111111101001110110010101011111,111110110111001001101110100111111
o	111110110110111011011111,1111110100100110101101011111,11111100111001011001000110100100111111
r	111101110110111011011111,111111010010100101011010011111,1111100111001011001000101001010011111
s	11111001101011011011101111,111110110011110101000100101011111,1111110111000101000001100101010100111111

Dirac (n:3,w:24)



Bernoulli (n:4,w:3)



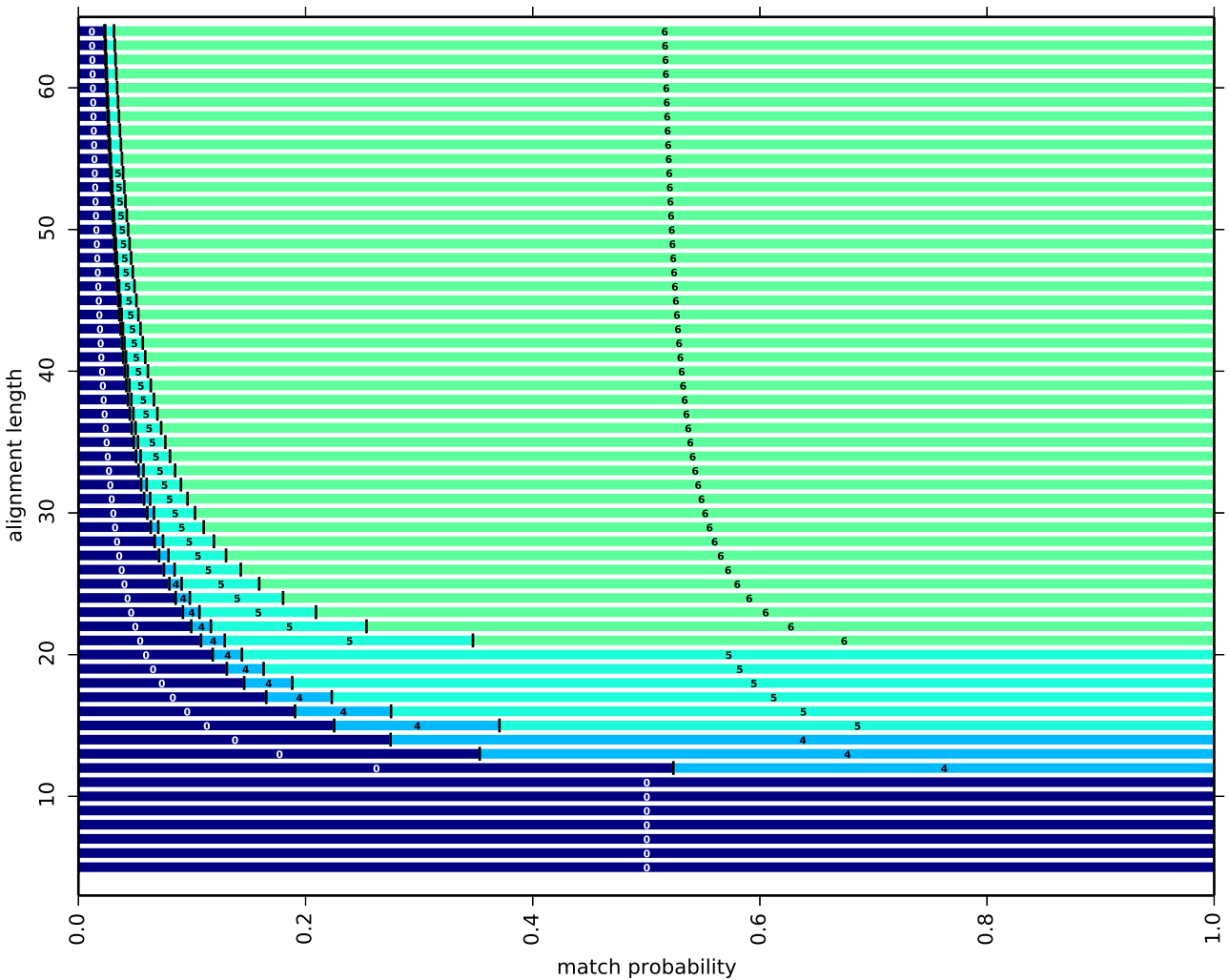
0 = 111,1011,1101,10011
 1 = 111,1011,110001,1000101
 2 = 1011,10011,10101,1100001

3 = 111,1011,1101,100010001
 4 = 111,1011,10011,10101
 5 = 111,10011,100011,100101

6 = 10011,101001,1000011,1010001
 7 = 1011,110001,10010001,10100001
 8 = 111,10011,100101,1000101

9 = 111,100101,10010001,10000010001
 A = 1011,10011,1000101,10100001
 B = 10011,101001,1010001,10000011

\int_0^x Hit Integration (n:4,w:3)



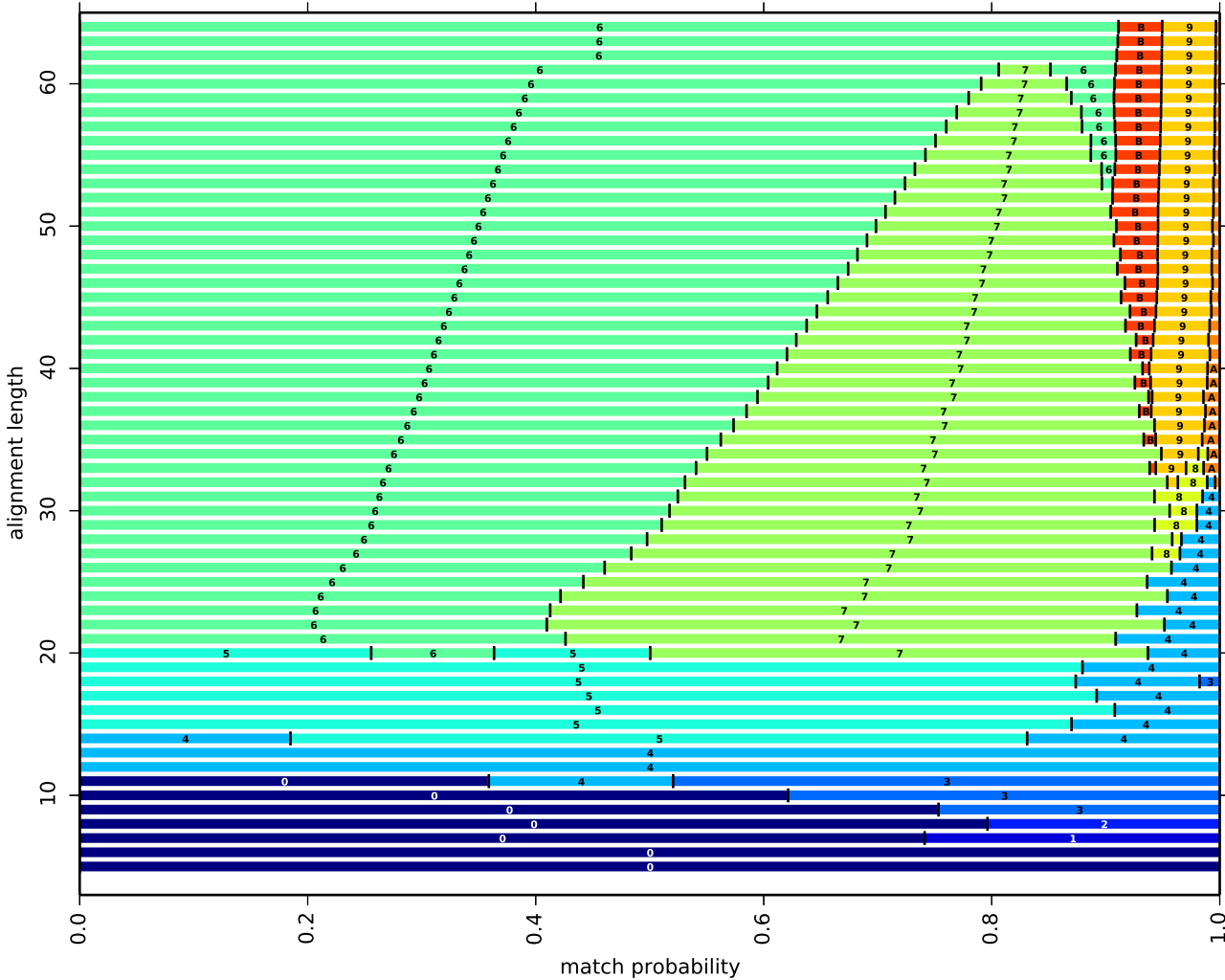
0 = 111,1011,1101,10011

4 = 111,1011,10011,10101

5 = 111,10011,100011,100101

6 = 10011,101001,1000011,1010001

\int_x^1 Hit Integration (n:4,w:3)



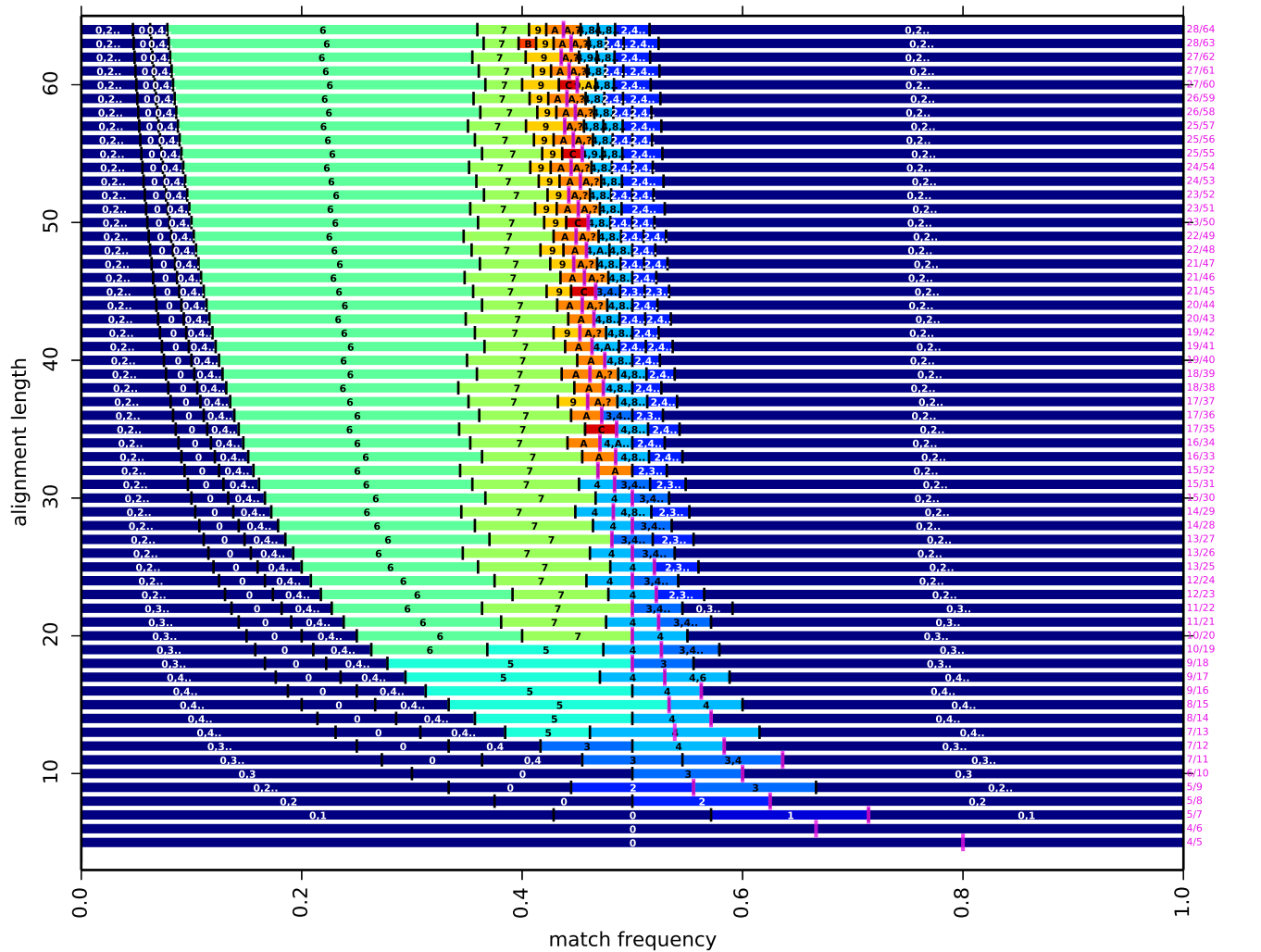
0 = 111,1011,1101,10011
 1 = 111,1011,110001,1000101
 2 = 1011,10011,10101,1100001

3 = 111,1011,1101,100010001
 4 = 111,1011,10011,10101
 5 = 111,10011,100011,100101

6 = 10011,101001,1000011,1010001
 7 = 1011,110001,10010001,10100001
 8 = 111,10011,100101,1000101

9 = 111,100101,10010001,10000010001
 A = 1011,10011,1000101,10100001
 B = 10011,101001,1010001,100000011

Dirac (n:4,w:3)



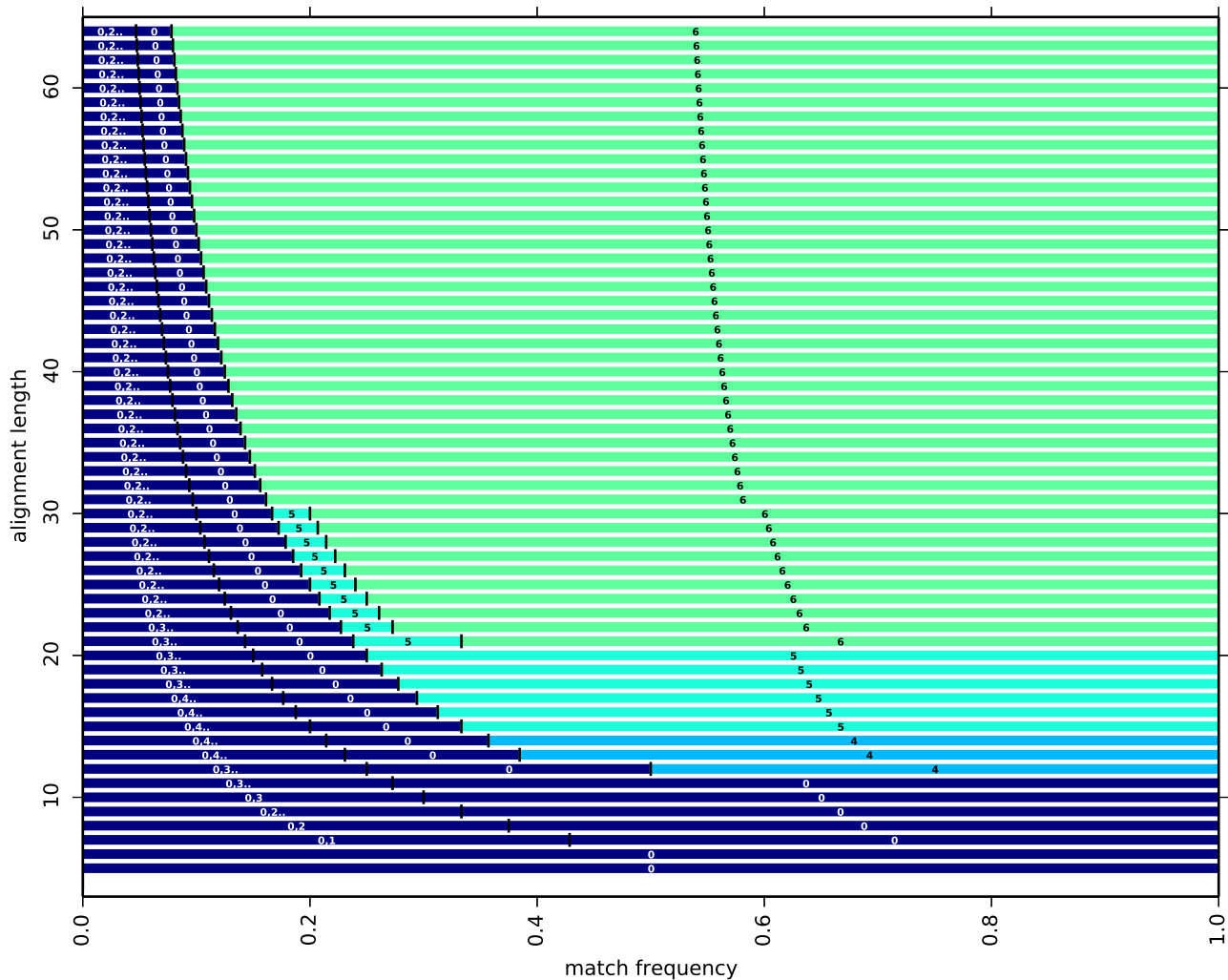
0 = 111,1011,1101,10011
 1 = 111,1011,110001,1000101
 2 = 1011,10011,10101,1100001
 3 = 111,1011,1101,100010001

4 = 111,1011,10011,10101
 5 = 111,10011,100011,100101
 6 = 10011,101001,1000011,1010001

7 = 1011,110001,10010001,10100001
 8 = 111,10011,100101,1000101
 9 = 111,100101,10010001,10000010001

A = 1011,10011,1000101,10100001
 B = 10011,101001,1010001,100000101
 C = 1011,10011,1000101,10000101

$$\sum_0^x \text{Heaviside}(n:4,w:3)$$



0 = 111,1011,1101,10011

1 = 111,1011,110001,1000101

2 = 1011,10011,10101,1100001

3 = 111,1011,1101,100010001

4 = 111,1011,10011,10101

5 = 111,10011,100011,100101

6 = 10011,101001,1000011,1010001

7 = 1011,110001,10010001,10100001

8 = 111,10011,100101,1000101

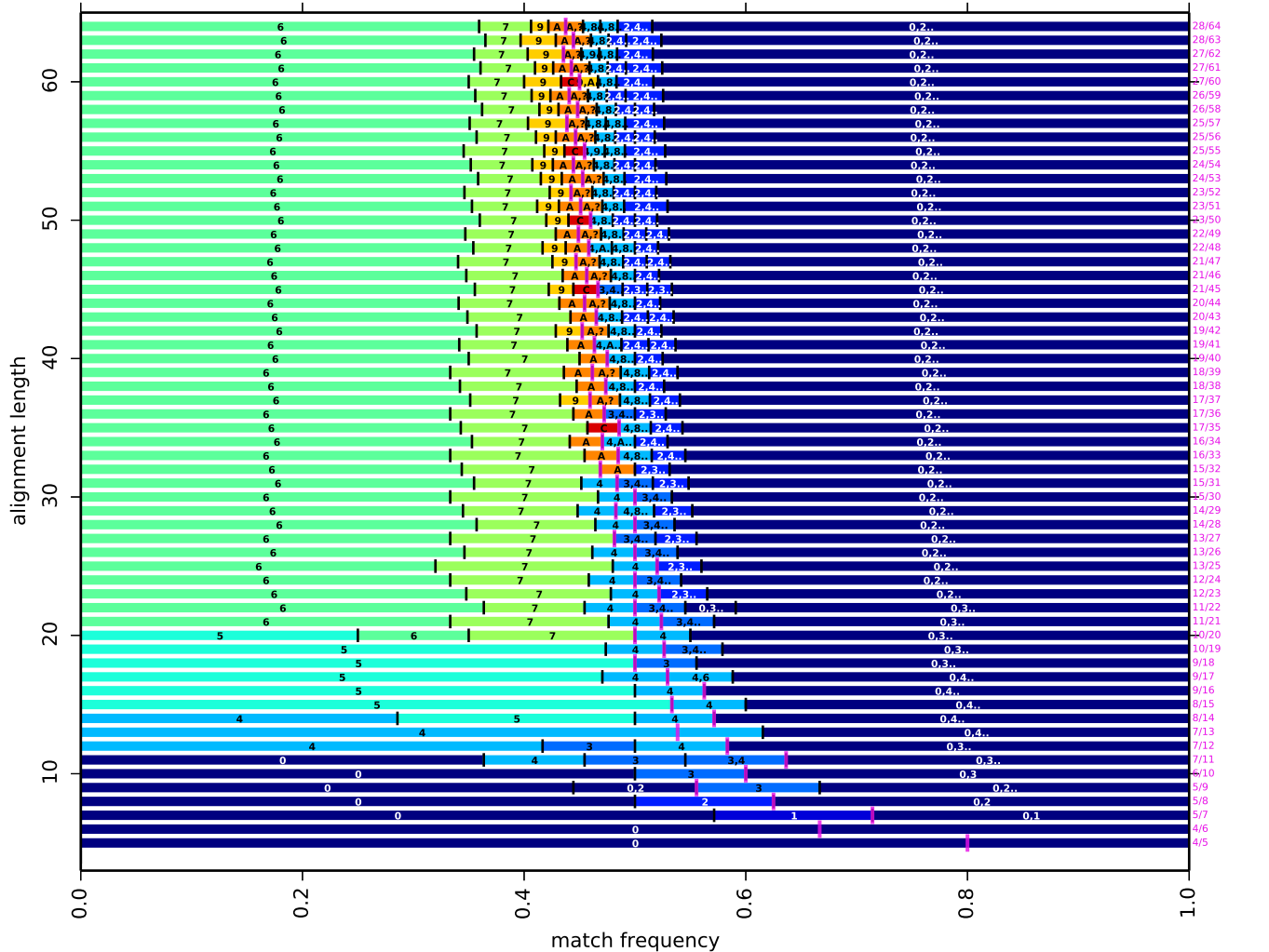
9 = 111,100101,10010001,10000010001

A = 1011,10011,1000101,10100001

B = 10011,101001,1010001,100000011

C = 1011,10011,1000101,10000101

$$\sum_x^1 \text{Heaviside}(n:4,w:3)$$



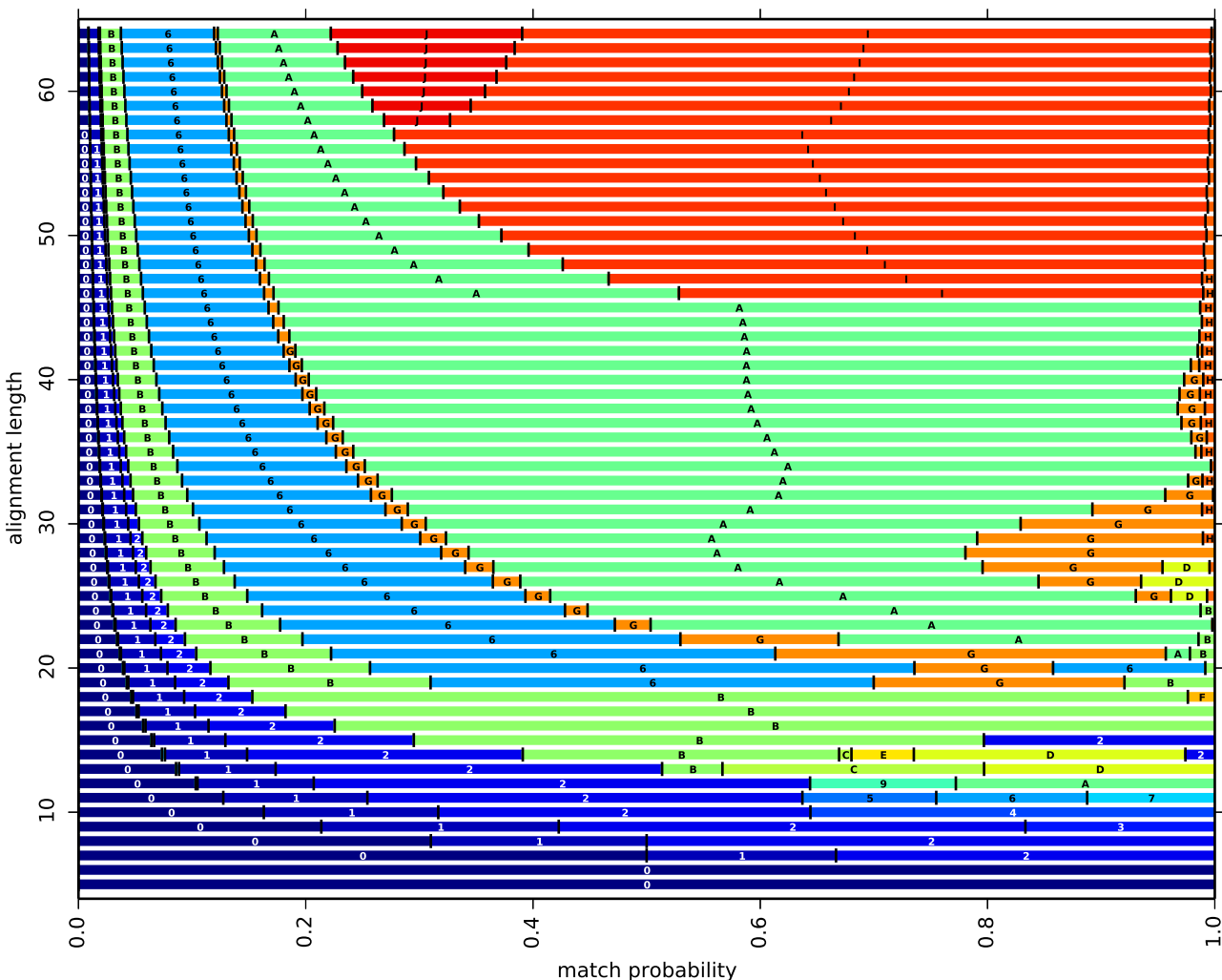
0 = 111,1011,1101,10011
 1 = 111,1011,110001,1000101
 2 = 1011,10011,10101,1100001
 3 = 111,1011,1101,100010001

4 = 111,1011,10011,10101
 5 = 111,10011,100011,100101
 6 = 10011,101001,1000011,1010001

7 = 1011,110001,10010001,10100001
 8 = 111,10011,100101,1000101
 9 = 111,100101,10010001,10000010001

A = 1011,10011,1000101,10100001
 B = 10011,101001,1010001,100000011
 C = 1011,10011,1000101,10000101

Bernoulli (n:4,w:4)

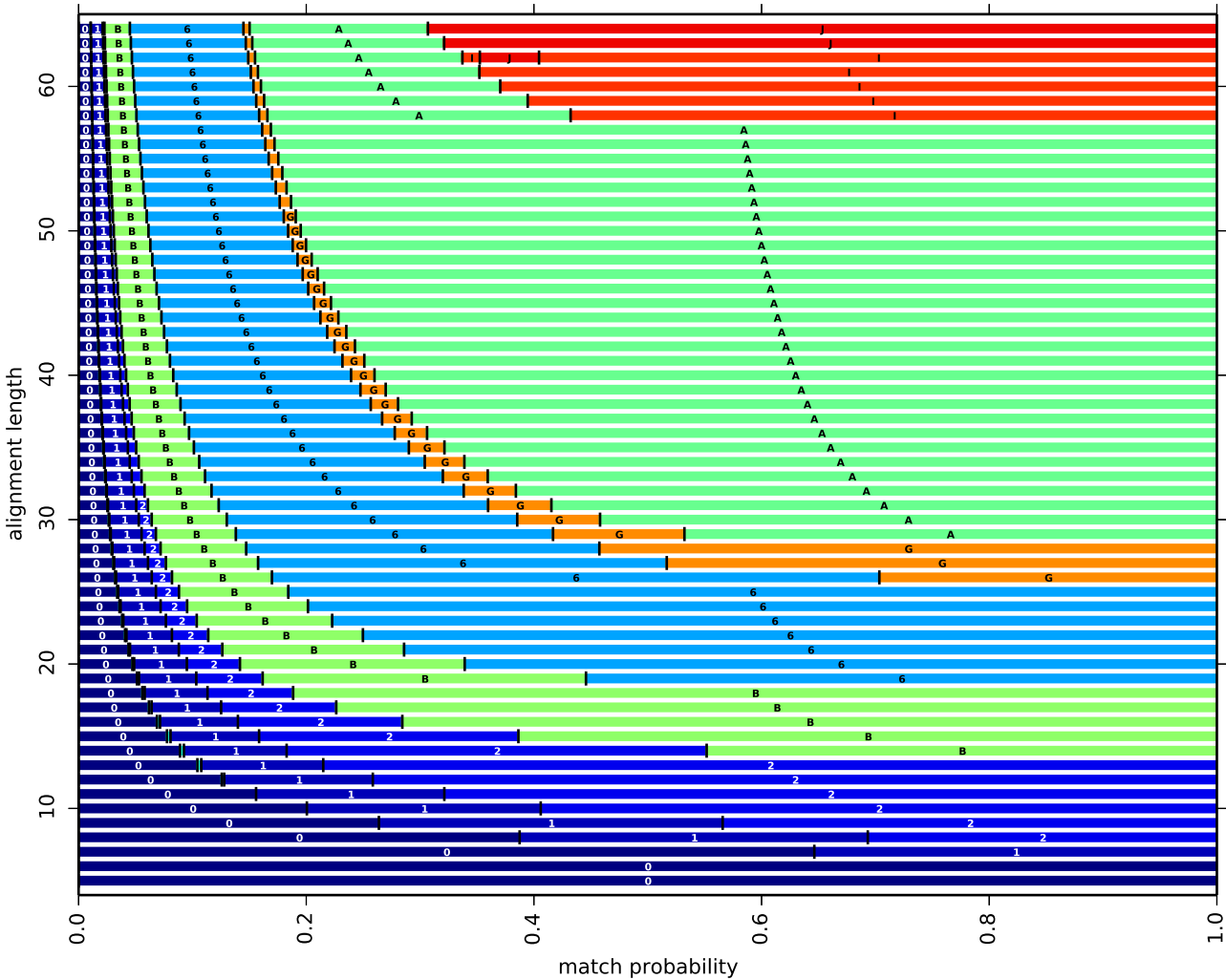


0 = 1111,10111,11011,11101
 1 = 1111,10111,11011,1100011
 2 = 1111,11011,1010101,1100011
 3 = 1111,101011,110011,1100101
 4 = 1111,110011,1010011,1100101
 5 = 10111,110011,110101,11000011
 6 = 10111,110011,10100101,11010001

7 = 11011,1100011,10100101,110000011
 9 = 1111,110011,1010011,110000101
 A = 101011,10000111,11010001,110001001
 B = 1111,11011,1100011,10010101
 C = 1111,110011,10100101,101000101
 D = 11011,10010101,11000011,11000000011

E = 10111,1101001,11000101,1100000011
 F = 1111,110011,1001011,10101001
 G = 10111,1101001,11000101,1100100001
 H = 10111,101101,10100011,100100011
 I = 10111,10100011,1001000011,10010010001
 J = 110011,100100101,101000011,1010000000011

\int_0^x Hit Integration (n:4,w:4)

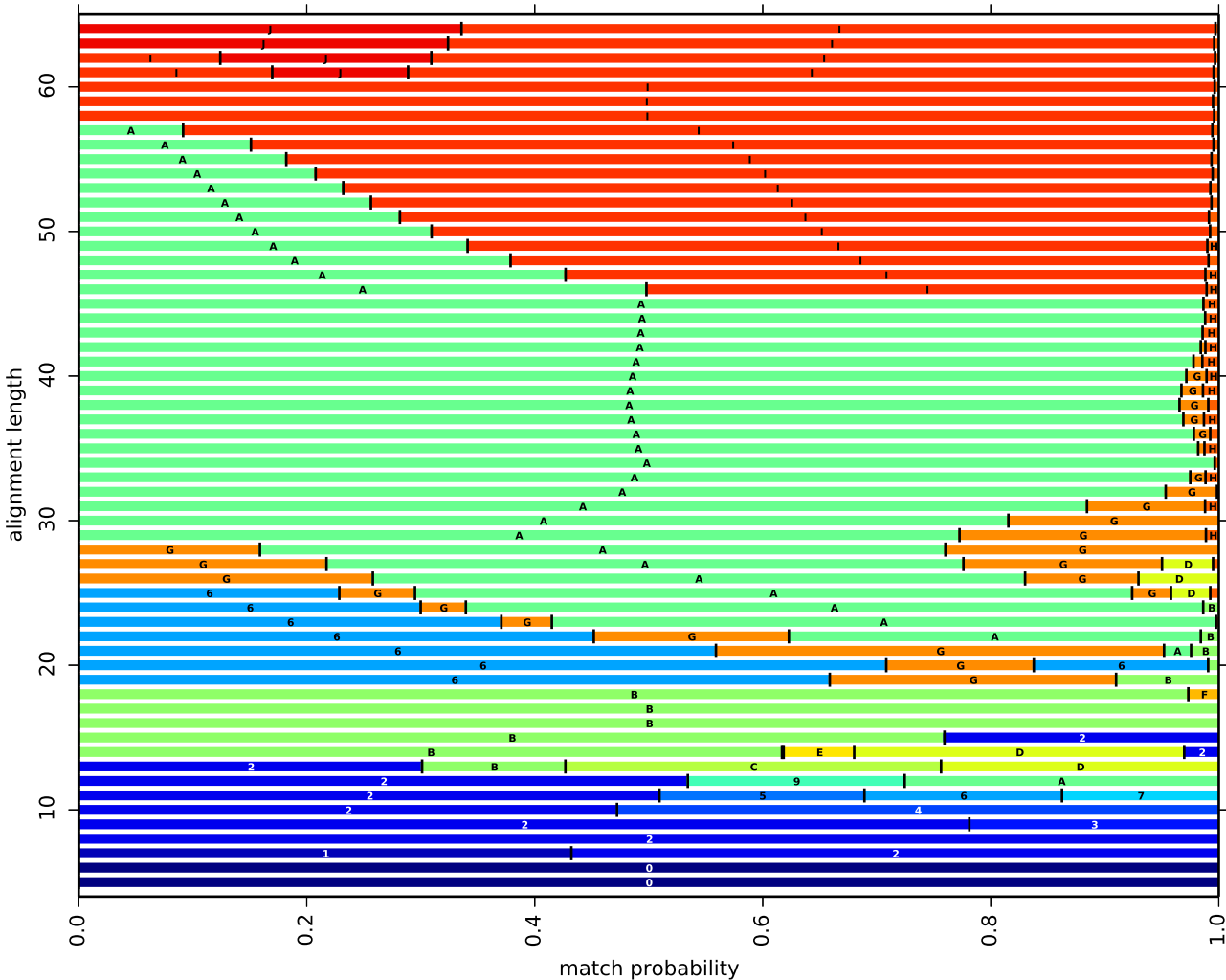


0 = 1111,10111,11011,11101
 1 = 1111,10111,11011,1100011
 2 = 1111,11011,1010101,1100011

6 = 10111,1100011,10100101,11010001
 A = 101011,10000111,11010001,110001001
 B = 1111,11011,1100011,10010101

G = 10111,1101001,11000101,1100100001
 I = 10111,10100011,1001000011,10010010001
 J = 110011,100100101,101000011,1010000000011

\int_x^1 Hit Integration (n:4,w:4)

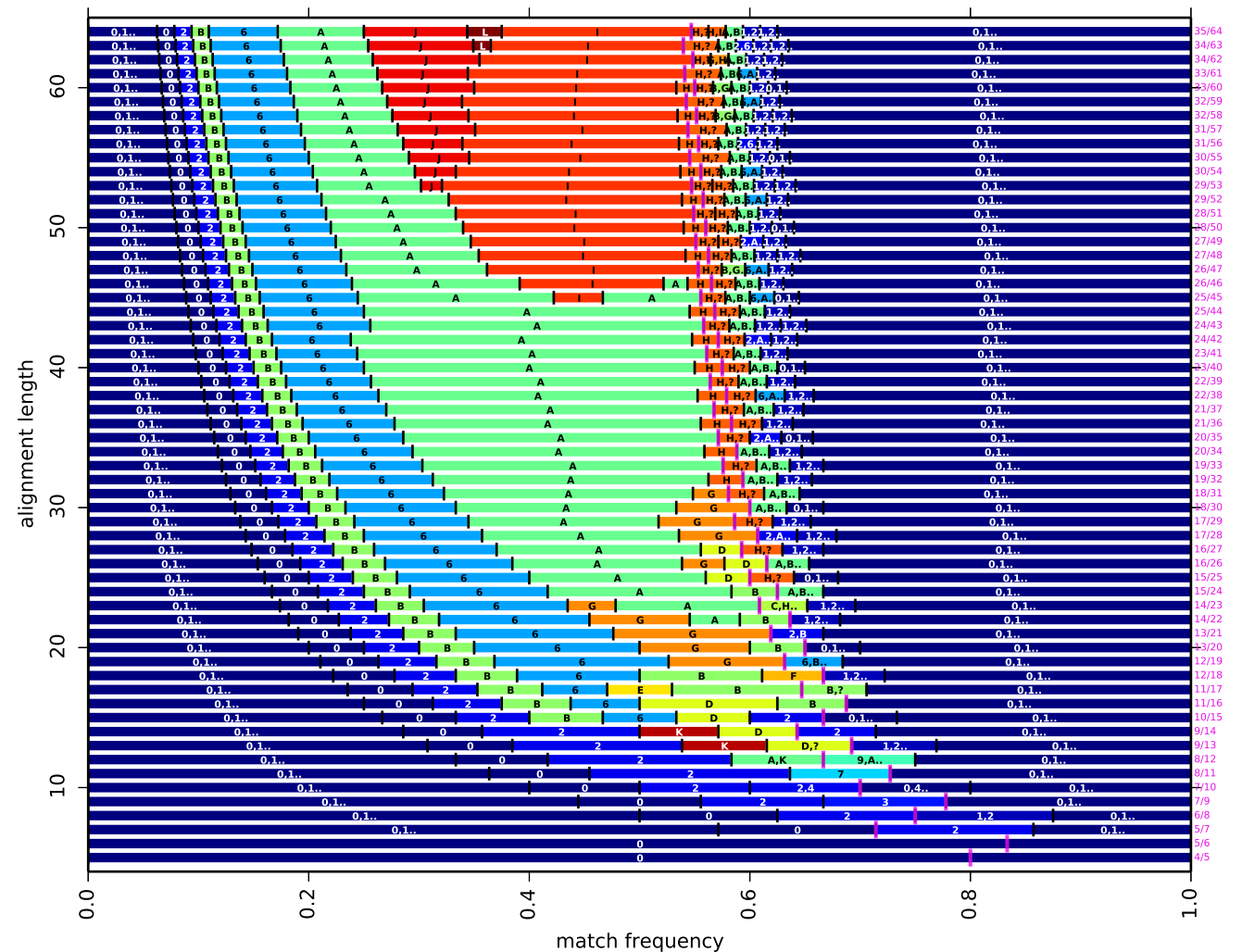


0 = 1111,10111,11011,11101
 1 = 1111,10111,11011,1100011
 2 = 1111,11011,1010101,1100011
 3 = 1111,101011,110011,1100101
 4 = 1111,110011,1010011,1100101
 5 = 10111,110011,110101,11000011
 6 = 10111,1100011,10100101,11010001

7 = 11011,1100011,10100101,110000011
 9 = 1111,110011,1010011,110000101
 A = 101011,10000111,11010001,110001001
 B = 1111,11011,1100011,10010101
 C = 1111,110011,10100101,101000101
 D = 11011,10010101,11000011,11000000011

E = 10111,1101001,11000101,11000000011
 F = 1111,110011,1001011,10101001
 G = 10111,1101001,11000101,1100100001
 H = 10111,101101,10100011,100100011
 I = 10111,10100011,1001000011,10010010001
 J = 110011,100100101,101000011,1010000000011

Dirac (n:4,w:4)

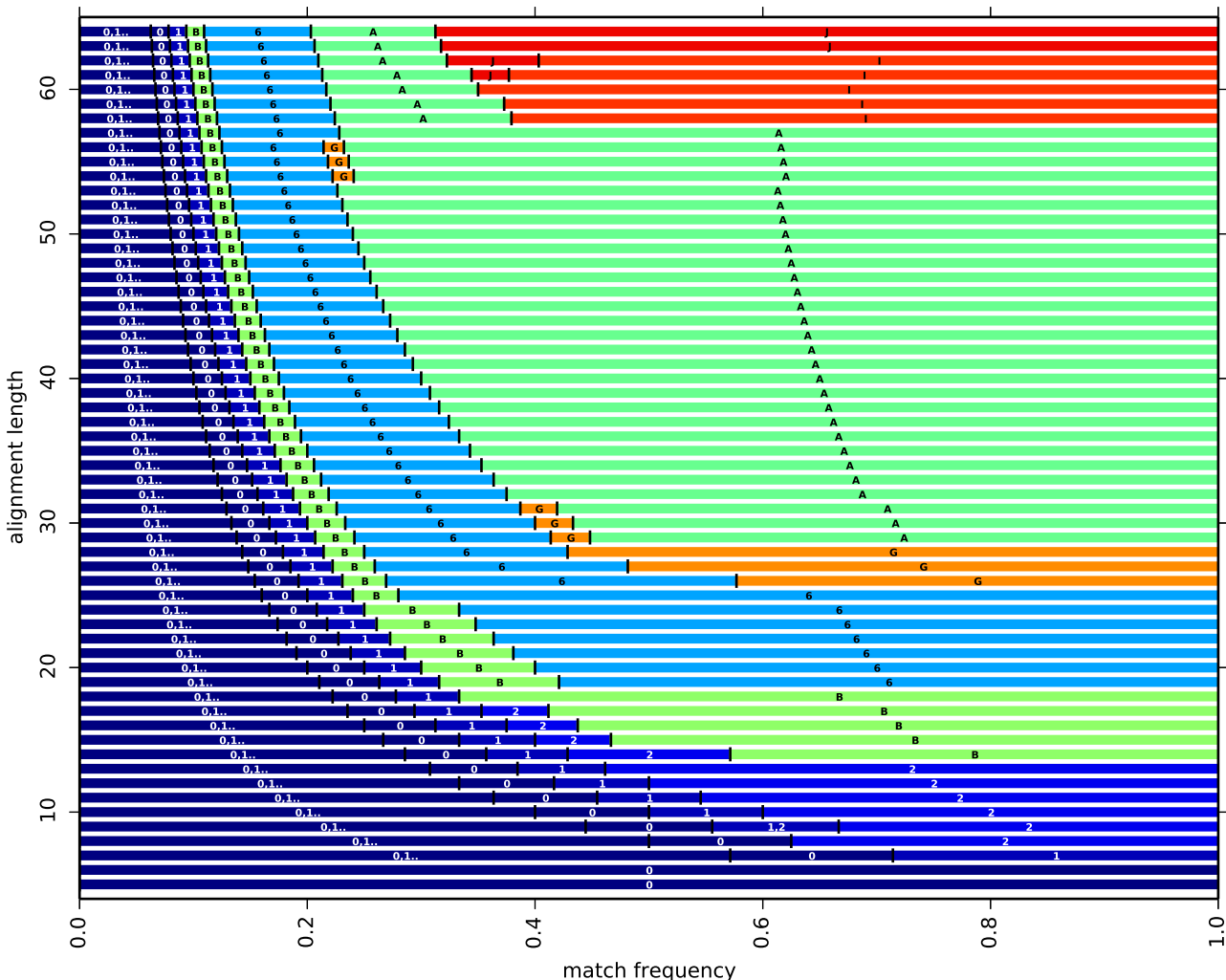


0 = 1111,10111,11011,11101
 1 = 1111,10111,11011,1100011
 2 = 1111,11011,1010101,1100011
 3 = 1111,101011,110011,1100101
 4 = 1111,10011,1010011,1100101
 5 = 10111,110011,110101,11000011
 6 = 10111,1100011,10100101,11010001
 7 = 11011,1100011,10100101,110000011

8 = 1111,10111,11011,110101
 9 = 1111,110011,1010011,110000101
 A = 101011,10000111,11010001,110001001
 B = 1111,11011,110011,10010101
 C = 1111,110011,10100101,101000101
 D = 11011,10010101,11000011,11000000011
 E = 10111,1101001,11000101,1100000011

F = 1111,110011,1001011,10101001
 G = 10111,1101011,11000101,1100100001
 H = 10111,101101,1010011,100100011
 I = 10111,10100011,1001000011,10010010001
 J = 110011,100100101,101000011,1010000000011
 K = 11011,1100011,10100101,1100000011
 L = 10010011,10101001,10100000011,1000001000011

$$\sum_0^x \text{Heaviside}(n:4,w:4)$$

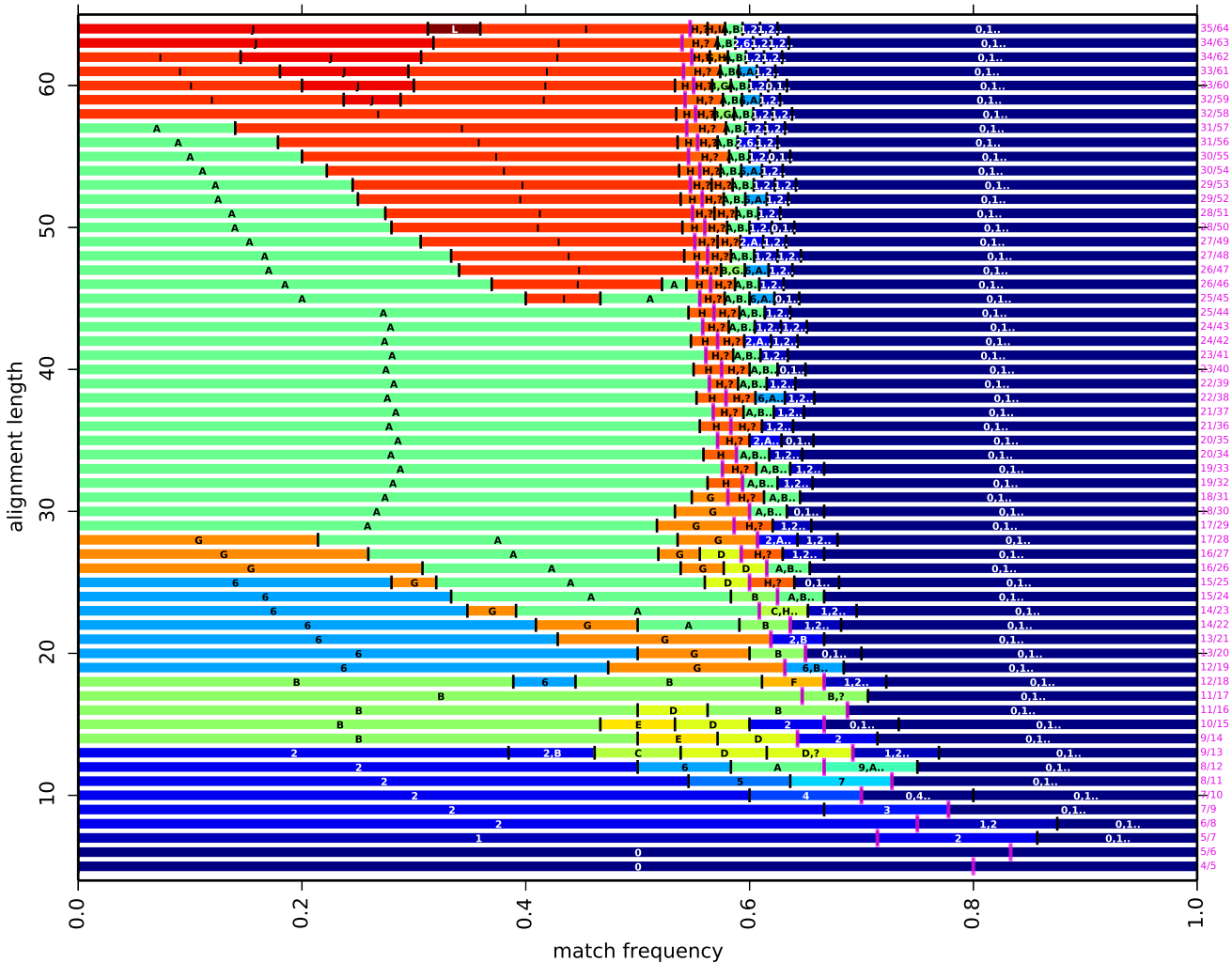


0 = 1111,10111,11011,11101
 1 = 1111,1011,11011,1100011
 2 = 1111,1011,1010101,1100011
 3 = 1111,101011,110011,1100101
 4 = 1111,110011,1010011,1100101
 5 = 10111,110011,110101,11000011
 6 = 10111,1100011,10100101,11010001
 7 = 11011,1100011,10100101,110000011

8 = 1111,10111,11011,110101
 9 = 1111,110011,1010011,110000101
 A = 101011,10000111,11010001,110001001
 B = 1111,11011,1100011,10010101
 C = 1111,110011,10100101,101000101
 D = 11011,10010101,11000011,11000000011
 E = 10111,1101001,11000101,1100000011

F = 1111,110011,1001011,10101001
 G = 10111,1101001,11000101,1100100001
 H = 10111,101101,10100011,100100011
 I = 10111,10100011,1001000011,10010010001
 J = 110011,100100101,101000011,1010000000011
 K = 11011,1100011,10100101,1100000011
 L = 10010011,10101001,101000000011,1000001000011

$$\sum_x \text{Heaviside}(n;4,w;4)$$



```

0 = 1111,10111,11011,11101
1 = 1111,10111,11011,1100011
2 = 1111,11011,1010101,1100011
3 = 1111,101011,110011,1100101
4 = 1111,110011,1010011,1100101
5 = 10111,110011,110101,11000011
6 = 10111,1100011,10100101,11010001
7 = 11011,1100011,10100101,110000011

```

```

8 = 1111,10111,11011,110101
9 = 1111,110011,1010011,110000101
A = 101011,10000111,11010001,110001001
B = 1111,11011,1100011,10010101
C = 1111,110011,10100101,101000101
D = 11011,10010101,11000011,1100000011
E = 10111,1101001,11000101,1100000011

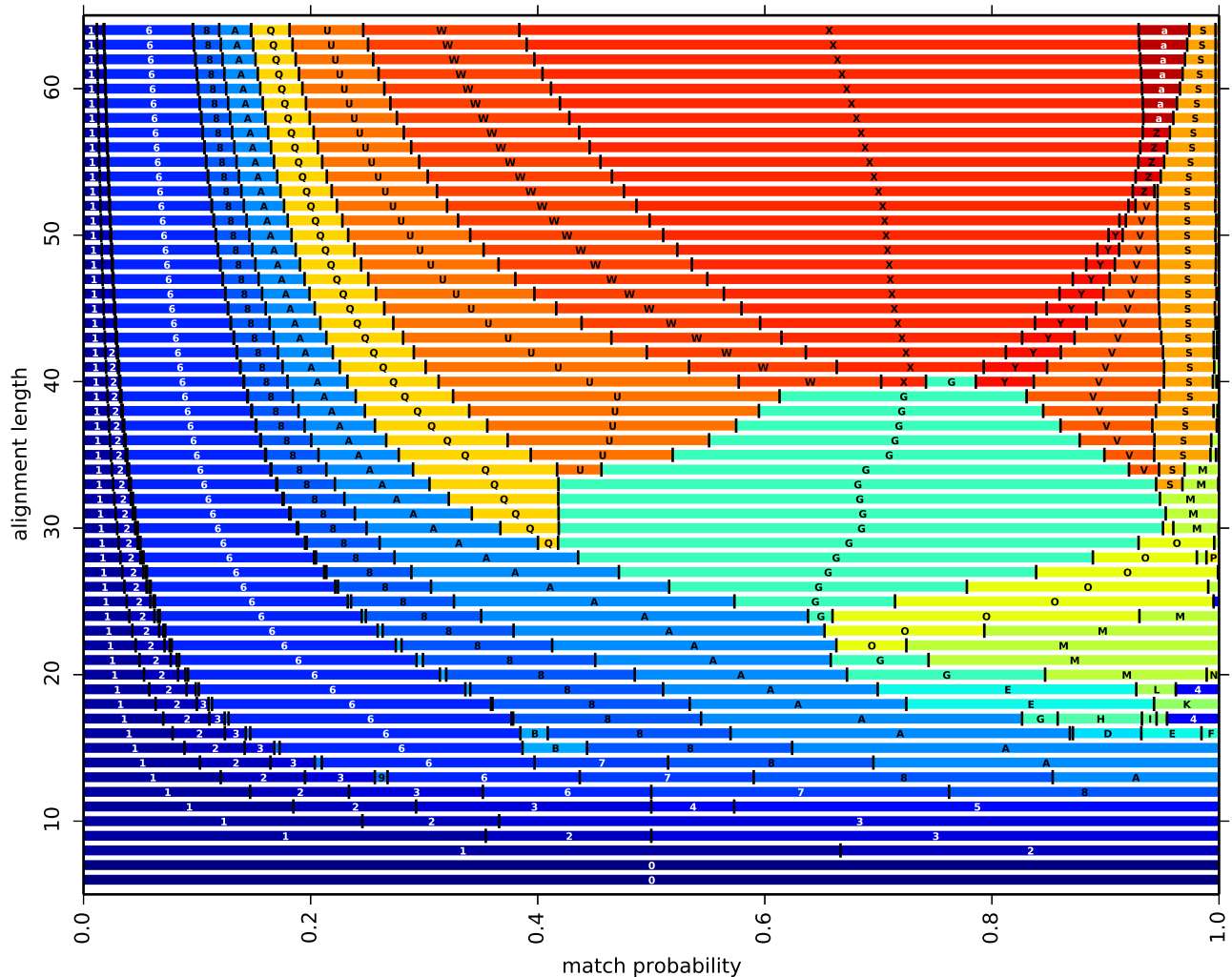
```

```

F = 1111,110011,1001011,10101001
G = 10111,1101011,10000101,1100100001
H = 10111,101101,10100011,100100011
I = 10111,10100011,1001000011,10010010001
J = 110011,100100101,101000011,1010000000011
K = 11011,1100011,10100101,1100000011
L = 10010011,10101001,10100000011,1000001000011

```

Bernoulli (n:4,w:5)



```

0 = 11111,101111,110111,111101
1 = 11111,101111,110111,111011
2 = 11111,101111,110111,11001011
3 = 11111,10111,1101011,11100101
4 = 11111,1011011,1100111,11010101
5 = 11111,1100111,1101011,1100100111
6 = 101111,1110011,11001011,11010101
7 = 101111,1110101,11000111,110010011
8 = 110111,1111001,11001011,110100011
9 = 11111,1100111,10101011,11010011
A = 101111,11010011,110001011,11000100011

```

```

B = 110111,1111001,11001011,110100011
D = 110111,11010011,11100101,10100000011
E = 110111,11001011,110100011,1101000000011
F = 110111,11100101,110100011,1100000001011
G = 110111,11001011,11010000101,101000100011
H = 1101011,1010001011,1100100011,1110000000011
I = 110111,11010011,11100101,101000000011
K = 1101011,10100111,110001011,1101000000011
L = 11111,1100111,10101101,110010011
M = 110111,11001011,110100101,1101000101
N = 101111,10110011,111000101,1001010011

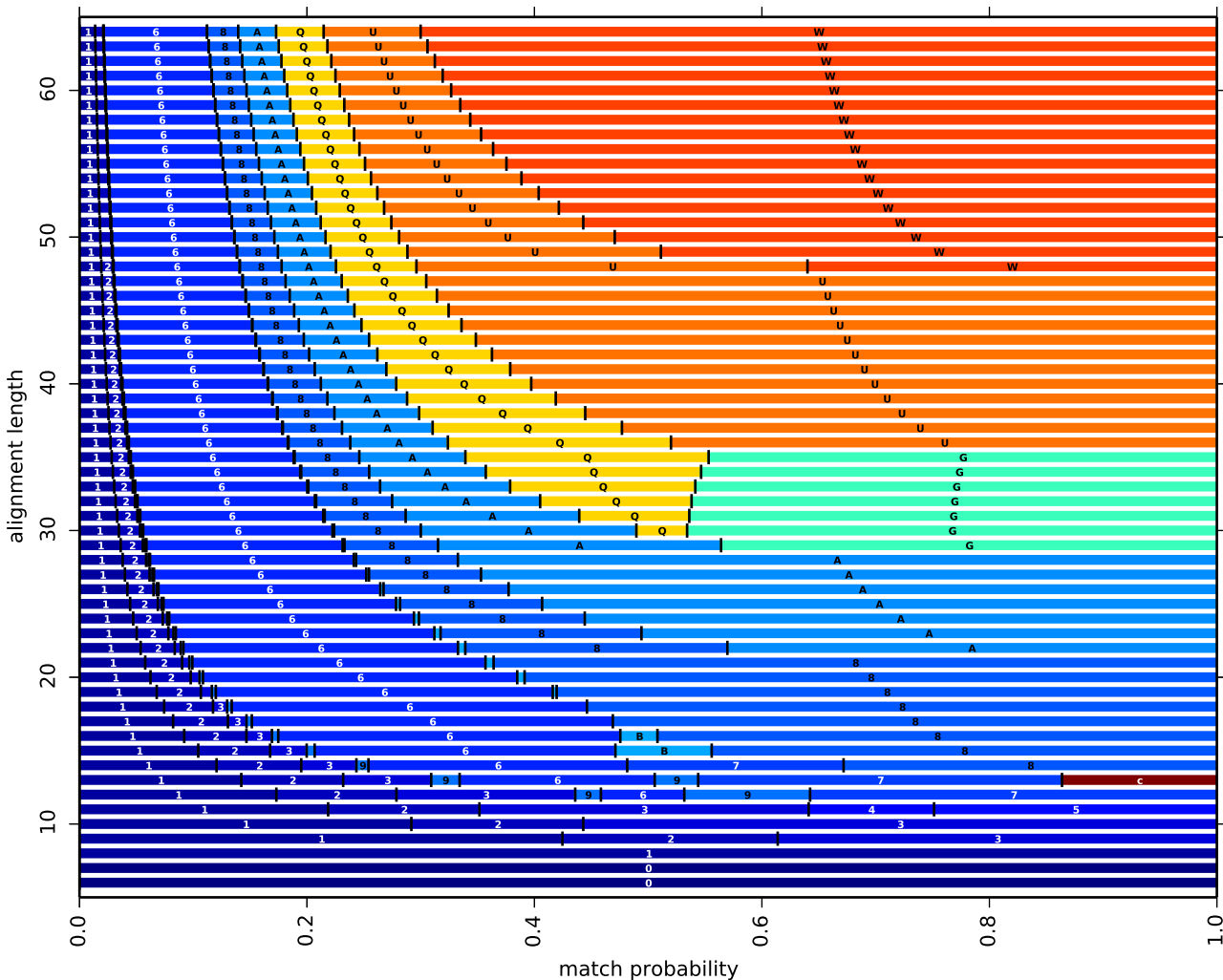
```

```

O = 110111,11010011,101001011,11001000101
P = 110111,11001011,1101000101,11010000101
Q = 1101011,101000111,110010011,110010000101
S = 110111,110100101,100010001011,1101000100001
U = 1101011,101000111,11000010011,110010000101
V = 110111,110100101,1101000101,110001000101
W = 1101011,10100010011,110010000101,101000010000011
X = 1101011,10100010011,110010000101,1010000010000011
Y = 110111,1010001011,10100100011,1010001000011
Z = 110111,1010001011,10010001000011,10100100001001
a = 110111,1101000101,10010010000101,1100001000100001

```


\int_0^x Hit Integration (n:4,w:5)

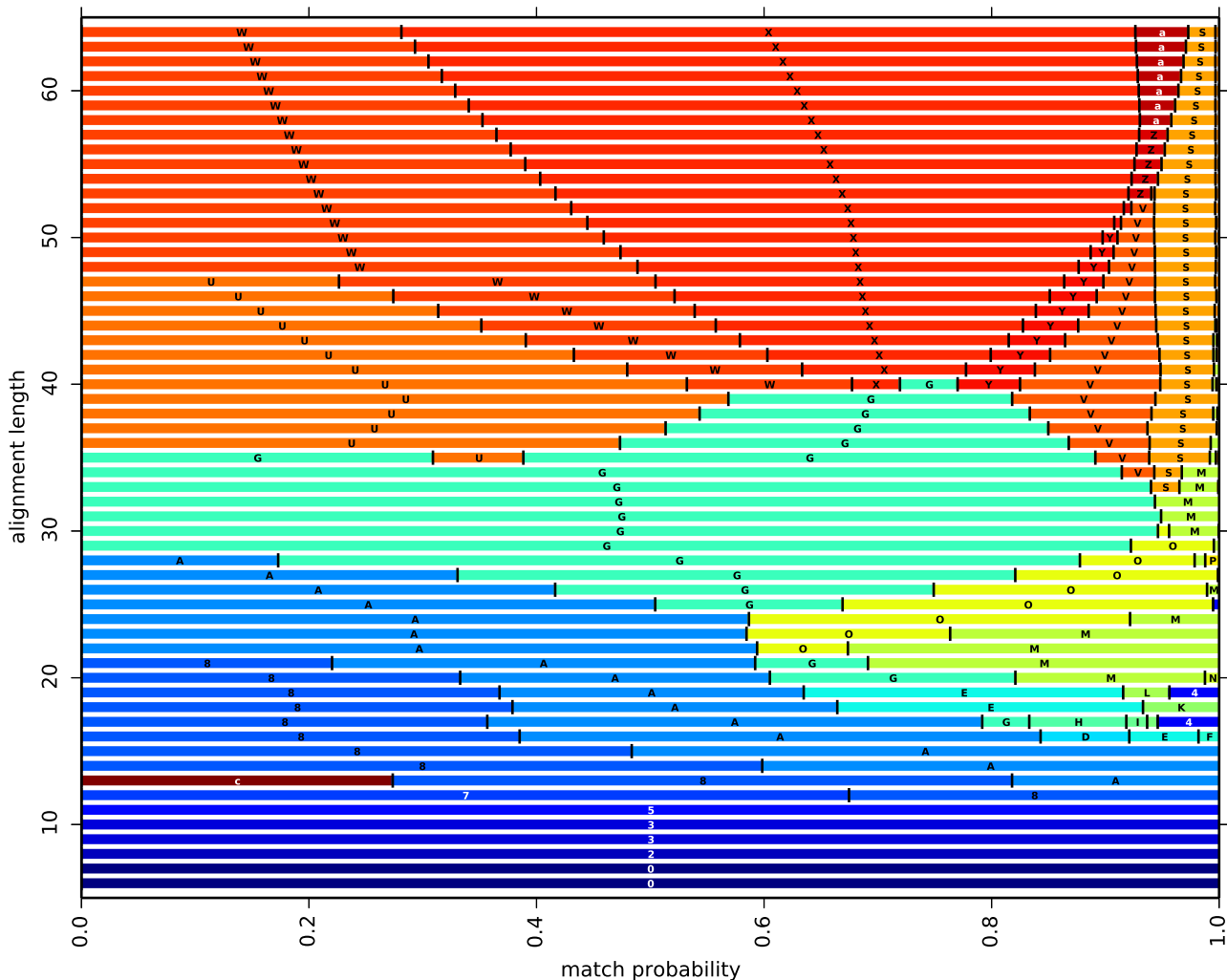


0 = 11111,101111,110111,111101
 1 = 11111,101111,110111,111011
 2 = 11111,101111,110111,11001011
 3 = 11111,110111,1101011,11100101
 4 = 11111,1011011,1100111,11010101
 5 = 11111,1100111,1101011,110010011

6 = 101111,1110011,11001011,11010101
 7 = 101111,1110101,11000111,110010011
 8 = 110111,1111001,11001011,1101000011
 9 = 11111,1100111,10101011,11010011
 A = 101111,11010011,110001011,11000100011
 B = 110111,1111001,11001011,110100011

G = 110111,11001011,11010000101,101000100011
 Q = 1101011,101000111,110010011,110010000101
 U = 1101011,101000111,11000010011,110010001001
 W = 1101011,10100010011,110010000101,101000010000011
 c = 101111,1110011,11001011,110100011

\int_x^1 Hit Integration (n:4,w:5)



```

0 = 11111,101111,110111,111101
2 = 11111,10111,111011,11001011
3 = 11111,110111,1101011,11100101
4 = 11111,1011011,1100111,11010101
5 = 11111,1100111,1101011,110010011
7 = 101111,1110101,11000111,110010011
8 = 101111,1111001,11001011,1101000011
A = 101111,11010011,110001011,11000100011
D = 110111,11010011,11100101,101000000111
E = 110111,11001011,110100011,1101000000011

```

```

F = 110111,11100101,110100011,1100000001011
G = 110111,11001011,11010000101,101000100011
H = 1101011,1010001011,1100100011,1110000000011
I = 110111,11010011,11100101,1010000000111
K = 1101011,10100111,110001011,1101000000011
L = 11111,1100111,10101101,110010011
M = 110111,11001011,110100101,1101000101
N = 101111,10110011,111000101,1001010011
O = 110111,11010011,101001011,11001000101
P = 110111,11001011,1101000101,11010000101

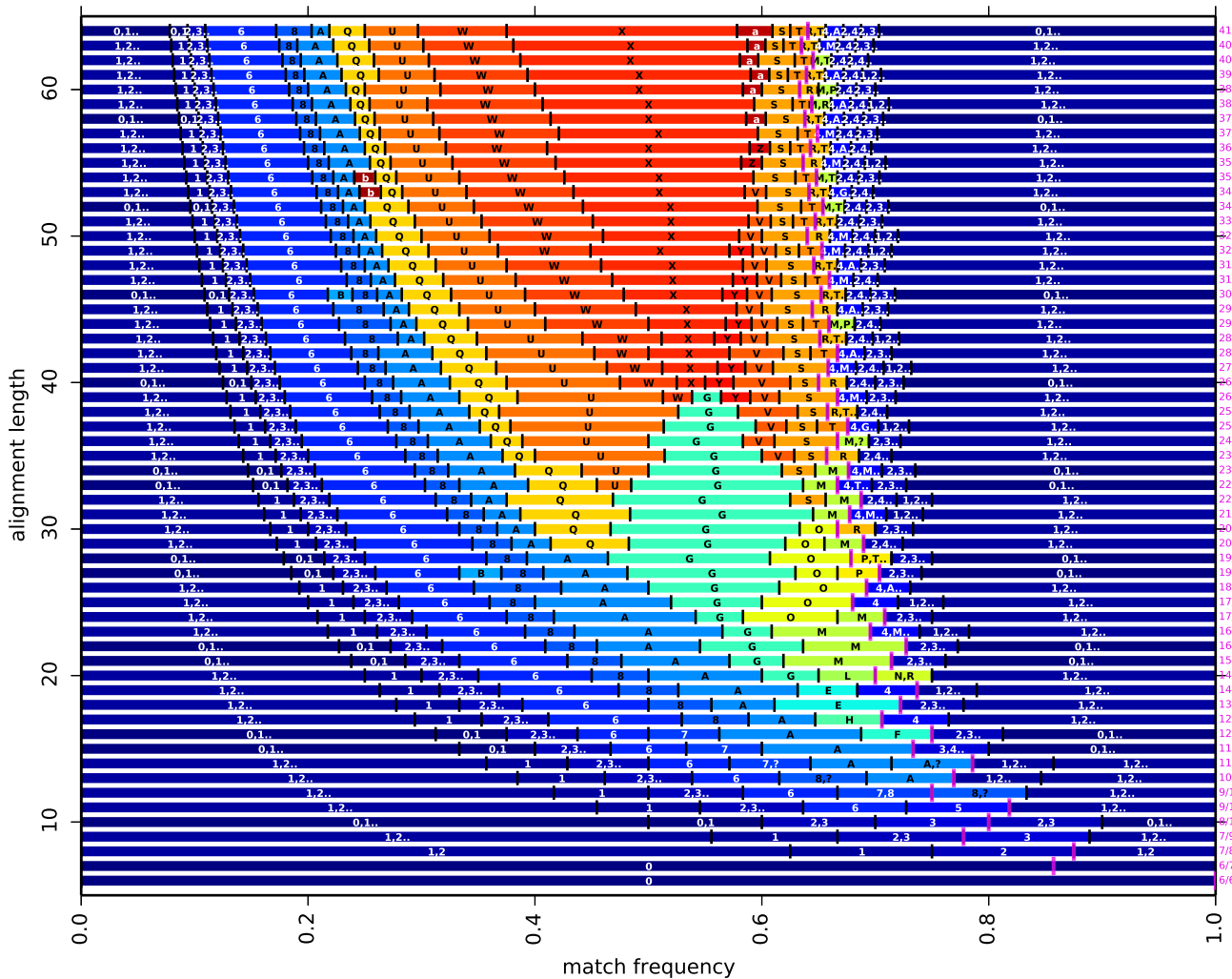
```

```

S = 110111,110100101,100010001011,1101000100001
U = 1101011,10100011,11000010011,110010001001
V = 110111,110100101,11010000101,110001000101
W = 1101011,10100010011,110010000101,101000010000011
X = 1101011,10100010011,110010000101,1010000010000011
Y = 110111,1010001011,10100100011,1010001000011
Z = 110111,1010001011,10010001000011,10100100001001
a = 110111,1101000101,10010010000101,11000010001000011
c = 101111,1110011,11001011,110100011

```

Dirac (n:4,w:5)



```

0 = 11111,101111,110111,111101
1 = 11111,101111,110111,111011
2 = 11111,101111,110111,11001011
3 = 11111,10111,1101011,11100101
4 = 11111,1011011,1100111,11010101
5 = 11111,1001111,1101011,110010011
6 = 101111,1100011,11001011,1101011
7 = 101111,1110101,11000111,110010101
8 = 110111,1111001,11001011,110100011
9 = 11111,1100111,10101011,11010011
A = 101111,11010011,110001011,11000100011
B = 110111,1111001,11001011,110100011
C = 1101011,101000111,110010011,111000000011

```

```

D = 110111,11010011,11100101,101000000111
E = 110111,11001011,110100011,11010000000111
F = 110111,11100101,110100011,1100000001011
G = 110111,11001011,11010000101,101000100011
H = 1101011,1010001011,1100100011,1110000000011
I = 110111,11010011,11100101,101000000111
J = 1101011,1010001011,1100100011,1100000000111
K = 1101011,10100111,110001011,1101000000011
L = 11111,1100111,1010101,110010011
M = 101111,11001011,110100101,1101000101
N = 101111,10110011,111000101,1001010011
O = 110111,11010011,101001011,11001000101
P = 110111,11001011,1101000101,11010000101

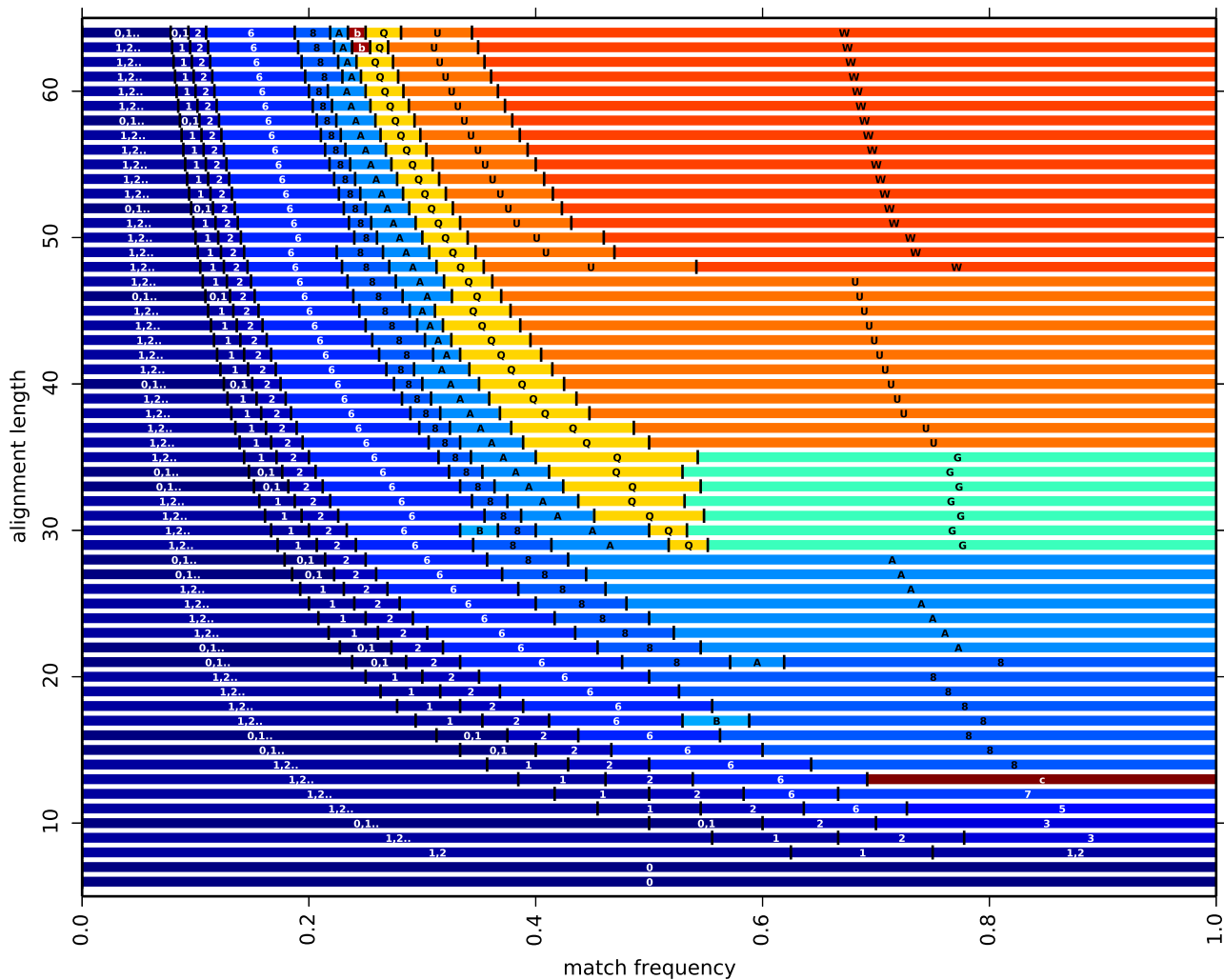
```

```

Q = 1101011,101000111,110010011,110010000101
R = 11111,1010111,101001101,101011001
S = 110111,110100101,100010001011,1101000100001
T = 101111,10110011,101010011,1011000011
U = 1101011,101000111,11000010011,110010001001
V = 110111,110100101,11010001011,10001000101
W = 1101011,10100010011,110010000101,110000010000011
X = 1101011,10100010011,110010000101,101000001000011
Y = 110111,1010001011,10100100011,1010001000011
Z = 110111,1010001011,10010001000011,10100100001001
a = 110111,1101000101,10010010000101,1100001000100001
b = 1101011,101000111,110010011,11000010011
c = 101111,1110011,11001011,110100011

```

$$\sum_0^x \text{Heaviside}(n:4, w:5)$$



```

0 = 11111,101111,110111,111101
1 = 11111,10111,110111,111011
2 = 11111,10111,111011,11001011
3 = 11111,110111,1101011,11100101
4 = 11111,1011011,1100111,11010101
5 = 11111,1100111,1101011,110010011
6 = 101111,1100011,11001011,11010101
7 = 101111,1110101,11000111,110010011
8 = 110111,1111001,11001011,1101000011
9 = 11111,1100111,10101011,11010011
A = 101111,11010011,110001011,11000100011
B = 110111,1111001,11001011,1101000011
C = 1101011,101000111,110010011,111000000011

```

```

D = 110111,11010011,11100101,101000000111
E = 110111,11001011,110100011,1101000000011
F = 110111,11100101,110100011,1100000001011
G = 110111,11001011,11010000101,101000100011
H = 1101011,1010001011,1100100011,1110000000011
I = 110111,11010011,11100101,1010000000111
J = 1101011,1010001011,1100100011,1100000000111
K = 1101011,10100111,110001011,11010000000011
L = 11111,1100111,10101101,110010011
M = 101111,11001011,110100101,11010000101
N = 101111,10110011,111000101,1001010011
O = 110111,11010011,101001011,11001000101
P = 110111,11001011,1101000101,11010000101

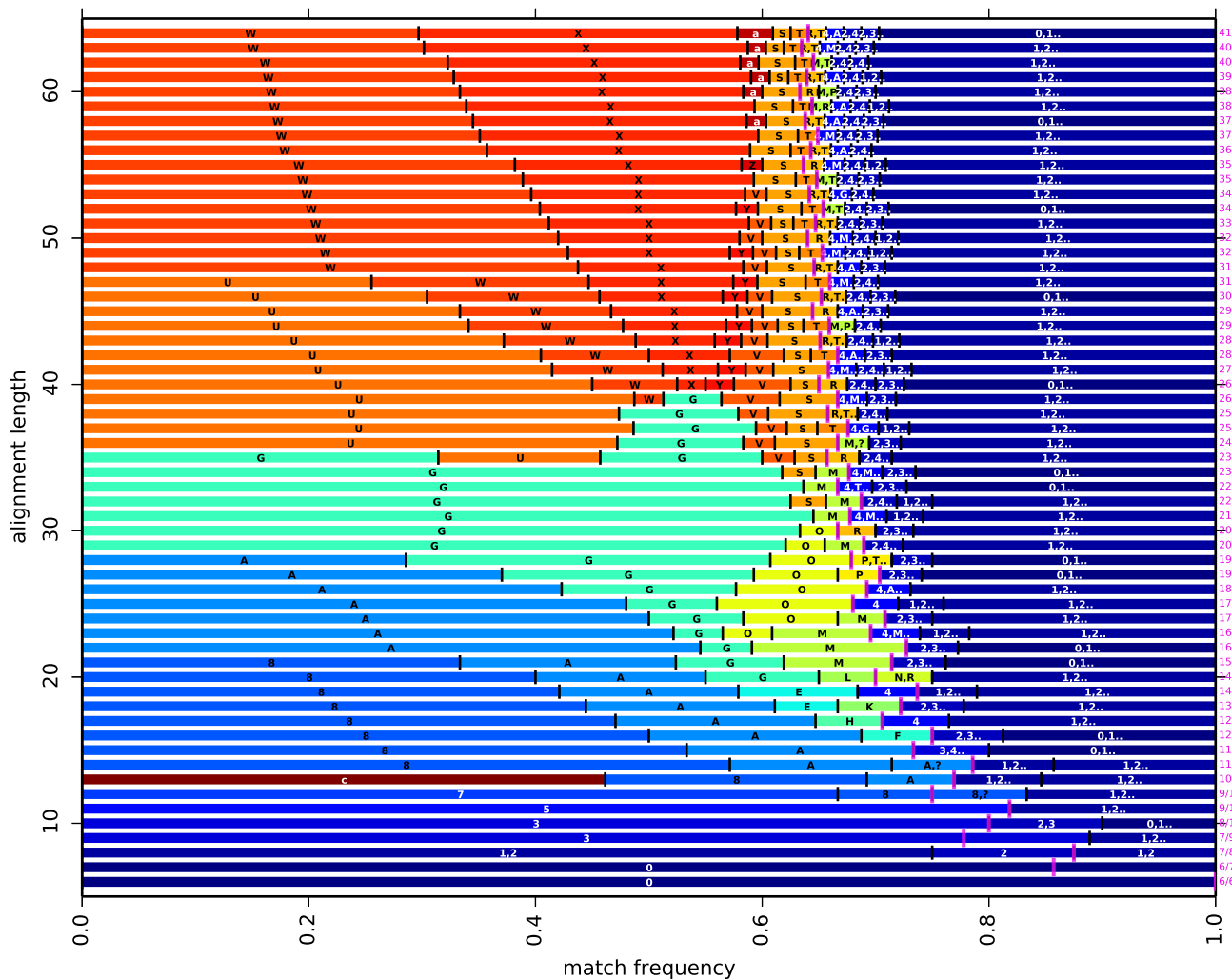
```

```

Q = 1101011,101000111,110010011,1100100000101
R = 11111,1010111,101001101,101011001
S = 110111,110100101,100010001011,1101000100001
T = 101111,10110011,101010011,1011000011
U = 1101011,101000111,11000010011,110010001001
V = 110111,110100101,1101000101,110001000101
W = 1101011,1010001011,110010000101,101000010000011
X = 1101011,10100010011,110010000101,1010000010000011
Y = 110111,1010001011,10100100011,1010001000011
Z = 110111,1010001011,10010001000011,10100100001001
a = 110111,1101000101,10010010000101,1100001000100001
b = 1101011,101000111,110010011,11000010011
c = 101111,1110011,11001011,110100011

```

$$\sum_x^1 \text{Heaviside}(n:4, w:5)$$



```

0 = 11111,101111,110111,111101
1 = 11111,10111,110111,111011
2 = 11111,10111,111011,11001011
3 = 11111,10111,1101011,11100101
4 = 11111,1011011,1100111,11010101
5 = 11111,100111,1101011,110010011
6 = 101111,110011,11001011,11010101
7 = 101111,1110101,11000111,110010011
8 = 110111,1111001,11001011,110100011
9 = 11111,1100111,10101011,11010011
A = 101111,11010011,110001011,11000100011
B = 110111,1111001,11001011,110100011
C = 1101011,101000111,110010011,111000000011

```

```

D = 110111,11010011,11100101,101000000111
E = 110111,11001011,110100011,1101000000011
F = 110111,11100101,110100011,1100000001011
G = 110111,11001011,11010000101,101000100011
H = 1101011,1010001011,1100100011,1110000000011
I = 110111,11010011,11100101,1010000000111
J = 1101011,1010001011,1100100011,1100000000111
K = 1101011,10100111,110001011,11010000000011
L = 11111,1100111,1010101,110010011
M = 110111,11001011,110100101,1101000101
N = 101111,10110011,111000101,1001010011
O = 110111,11010011,101001011,11001000101
P = 110111,11001011,1101000101,11010000101

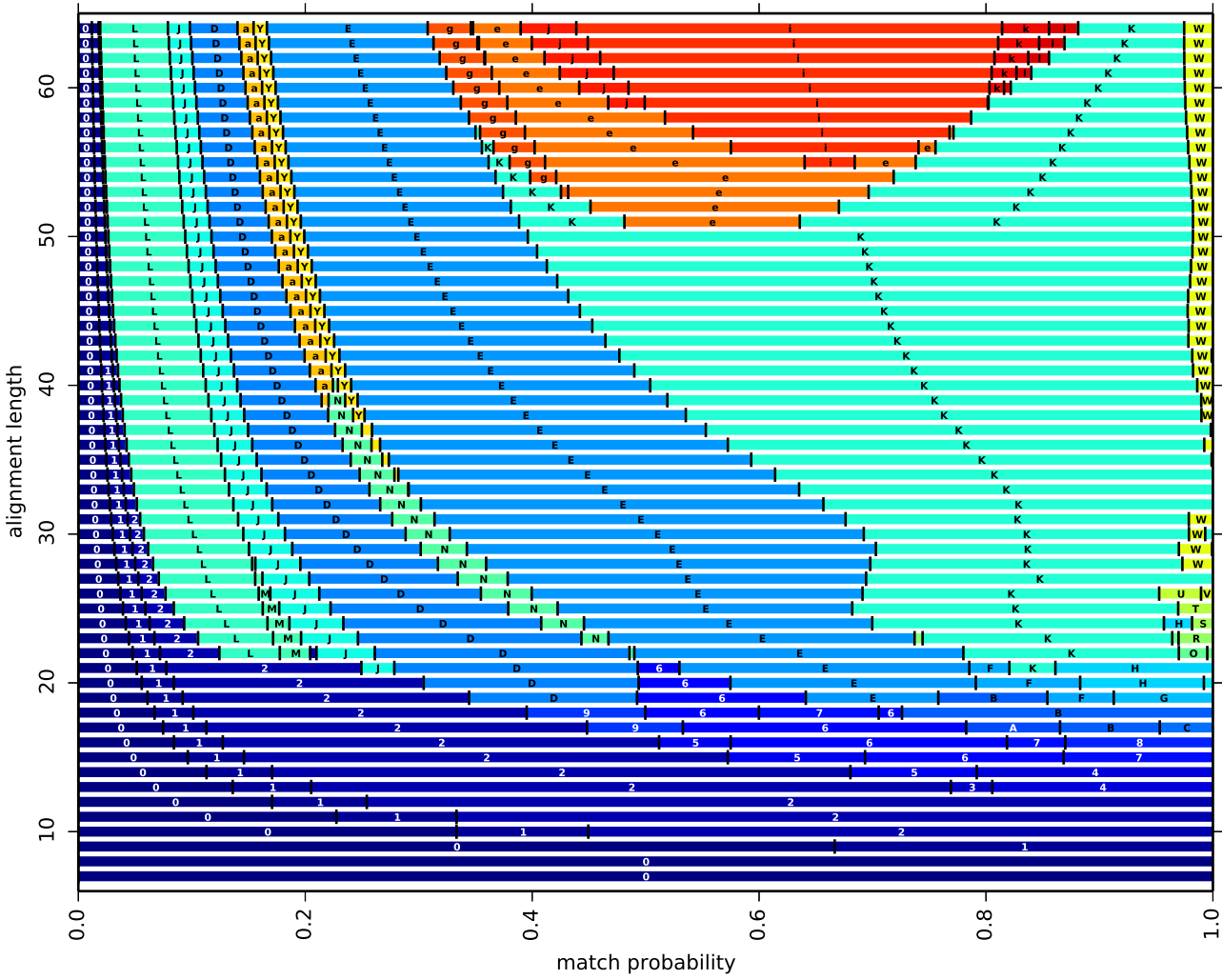
```

```

Q = 1101011,101000111,110010011,110010000101
R = 11111,1010111,101001101,101011001
S = 110111,110100101,100010001011,1101000100001
T = 101111,10110011,101010011,10110000111
U = 1101011,101000111,11000010011,110010001001
V = 110111,110100101,11010001001,110001000101
W = 1101011,10100010011,110010000101,110000010000011
X = 1101011,10100010011,110010000101,110000010000011
Y = 110111,1010001011,10100100011,1010001000011
Z = 110111,1010001011,1001000100011,10100100001001
a = 110111,1101000101,10010001000101,11000010001000011
b = 1101011,101000111,110010011,11000010011
c = 101111,1110011,11001011,110100011

```

Bernoulli (n:4,w:6)



```

0 = 111111,1011111,1110111,1111011
1 = 111111,1101111,1111011,110101011
2 = 111111,11011011,11100111,110101011
3 = 1110111,11011011,110001011,1110100011
4 = 1110111,11011011,110100011,11100001011
5 = 1101111,11110011,110101011,11010000111
6 = 1101111,11110011,110101011,110100000111
7 = 1101111,111010011,1110001011,110010000111
8 = 11010111,111011001,11100001011,110010000111
9 = 1011111,11101011,110011011,11010000111
A = 1110111,11010011,11001011,1101000000111
B = 11100111,110101011,11001001011,11100000001011
C = 1110111,11001011,11010001011,1100100001011
D = 1011111,11100111,110101011,11010010011
E = 1110111,1101001011,110010001011,1101000100011
F = 11100111,110101011,11001001011,110100000001011
G = 11010111,1110010011,110100001011,110100000000111
H = 1110111,1101001011,110010001011,1101000000001011
J = 1011111,11100111,101101011,110011011

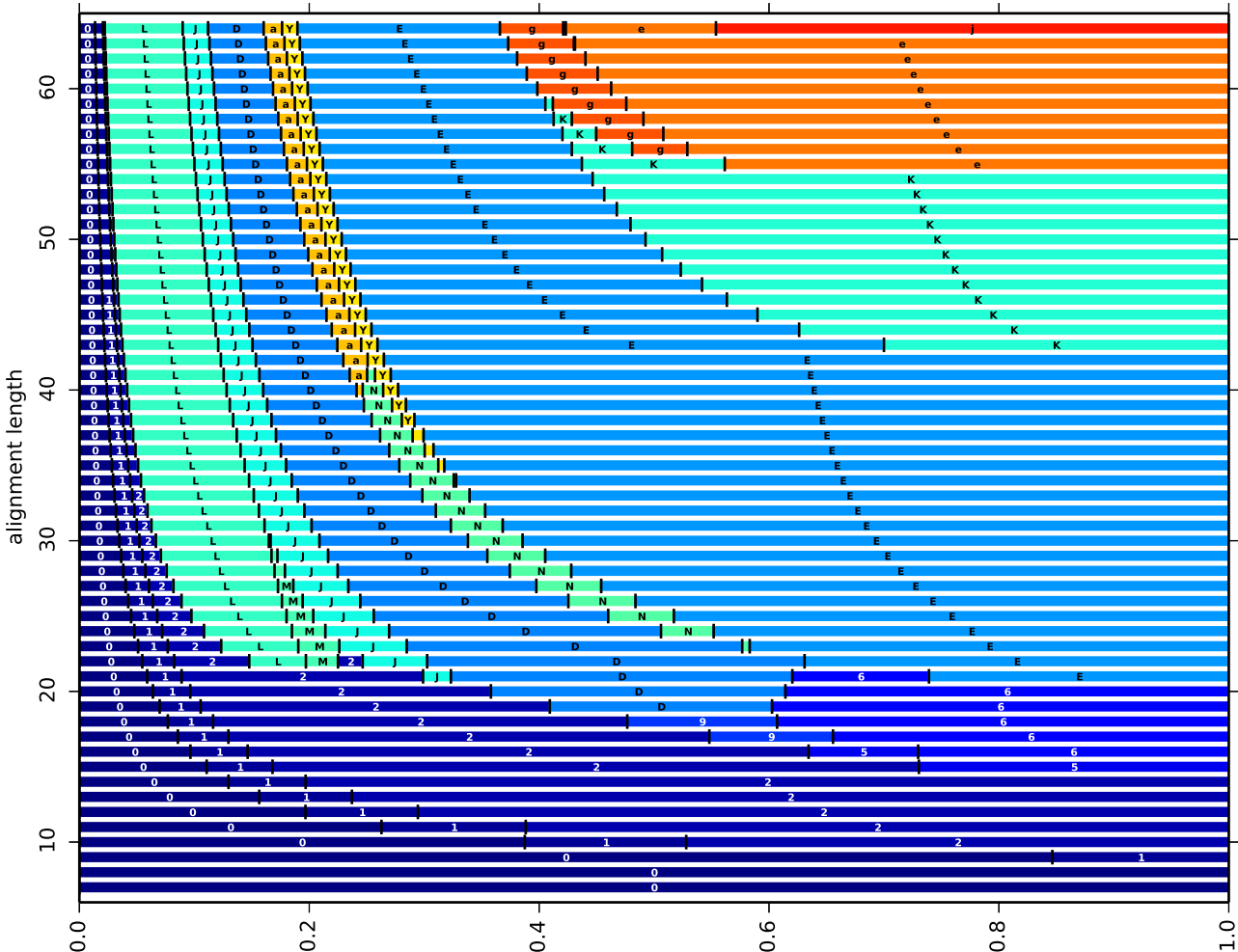
```

```

K = 1110111,1101001011,110010001011,110100010000101
L = 1110111,10111101,11010101,1110000111
M = 1101111,10111011,11110101,110100111
N = 11100111,101101101,110101011,110100000111
O = 1110111,1101001011,1100010001011,110100010000000111
R = 1110111,110101011,1100100111,1101000001011
S = 1110111,11011011,101001011,11110100011
T = 1110111,110011011,11010000111,10101001011
U = 100110111,1101011001,11110000101,110001010011
V = 1110111,101101011,1100100111,11010001011
W = 1110111,1101001011,1000100010111,1101000100101
Y = 10111011,11100011,1101001011,1101000010011
a = 1101111,111010011,1110001011,111001000011
e = 11010111,110100001011,1100100001011,10100001000100011
g = 110101011,11001001011,11010000010011,111000010000101
i = 110010011,110001010011,110100000001011,1100001000000010101
j = 110100111,110001001011,1100100001011,10101000000100011
k = 1101001011,110010001011,101010000100011,10100010000000000111
l = 110101011,101000100111,10100001001011,11001000001000011

```

\int_0^x Hit Integration (n:4,w:6)



```

0 = 111111,1011111,1110111,1111011
1 = 111111,1101111,1111011,110101011
2 = 111111,11011011,11100111,110101011
5 = 1101111,11110011,110101011,11010000111
6 = 1101111,11110011,110101011,11010000111
9 = 1011111,11101011,110011011,1101000111
D = 1011111,1100111,110101011,11010010011
E = 1110111,1101001011,110010001011,1101000100011
j = 1011111,11100111,101101011,110011011

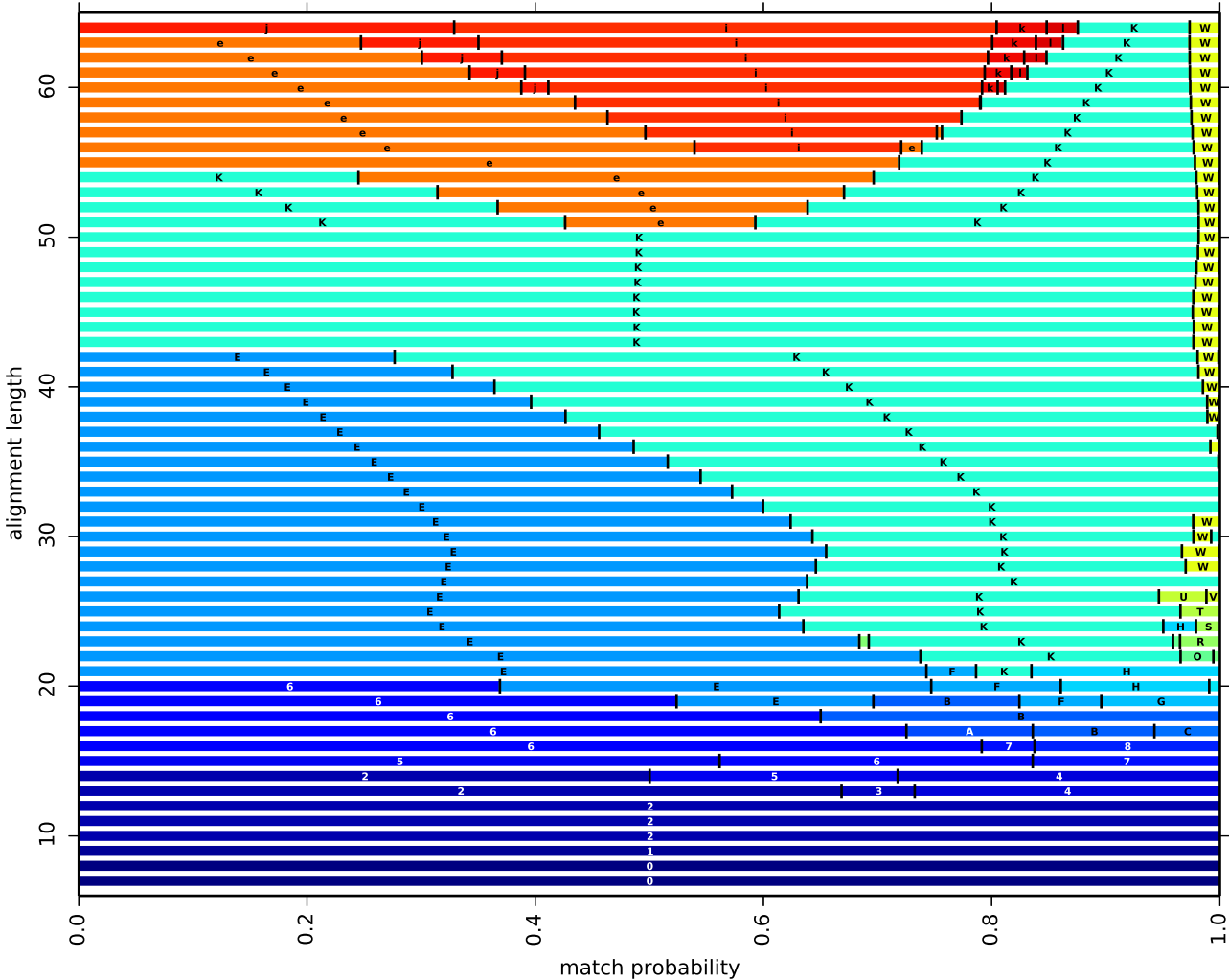
```

```

K = 1110111,1101001011,110010001011,110100010000101
L = 1110111,10111101,11011011,111000111
M = 1101111,10111011,111110101,110100111
N = 11100111,101101101,110101011,110100000111
Y = 10111011,1111000111,1101001011,110100010011
a = 1101111,111010011,1110001011,111001000011
e = 11010111,110100001011,1100100001011,10100001000100011
g = 110101011,11001001011,11010000010011,11100010000101
j = 110100111,110001001011,11001000001011,10101000000100011

```

\int_x^1 Hit Integration (n:4,w:6)



```

0 = 111111,10111111,1110111,1111011
1 = 111111,1101111,1111011,110101011
2 = 111111,11011011,11100111,110101011
3 = 1110111,11011011,1100010111,11101000011
4 = 1110111,11011011,1101000111,11100001011
5 = 1101111,11110011,110101011,11010000111
6 = 1101111,11110011,110101011,110100000111
7 = 1101111,111010011,1110001011,110010000111
8 = 11010111,111011001,11100001011,110010000111
A = 1110111,110100111,111001011,110100000111
B = 11100111,110101011,11001001011,11100000001011
C = 1110111,110010111,11010001011,1100100001011
E = 1110111,1101001011,110010001011,1101000100011
F = 11100111,110101011,11001001011,110100000001011
G = 11010111,1110010011,110100001011,11010000000111

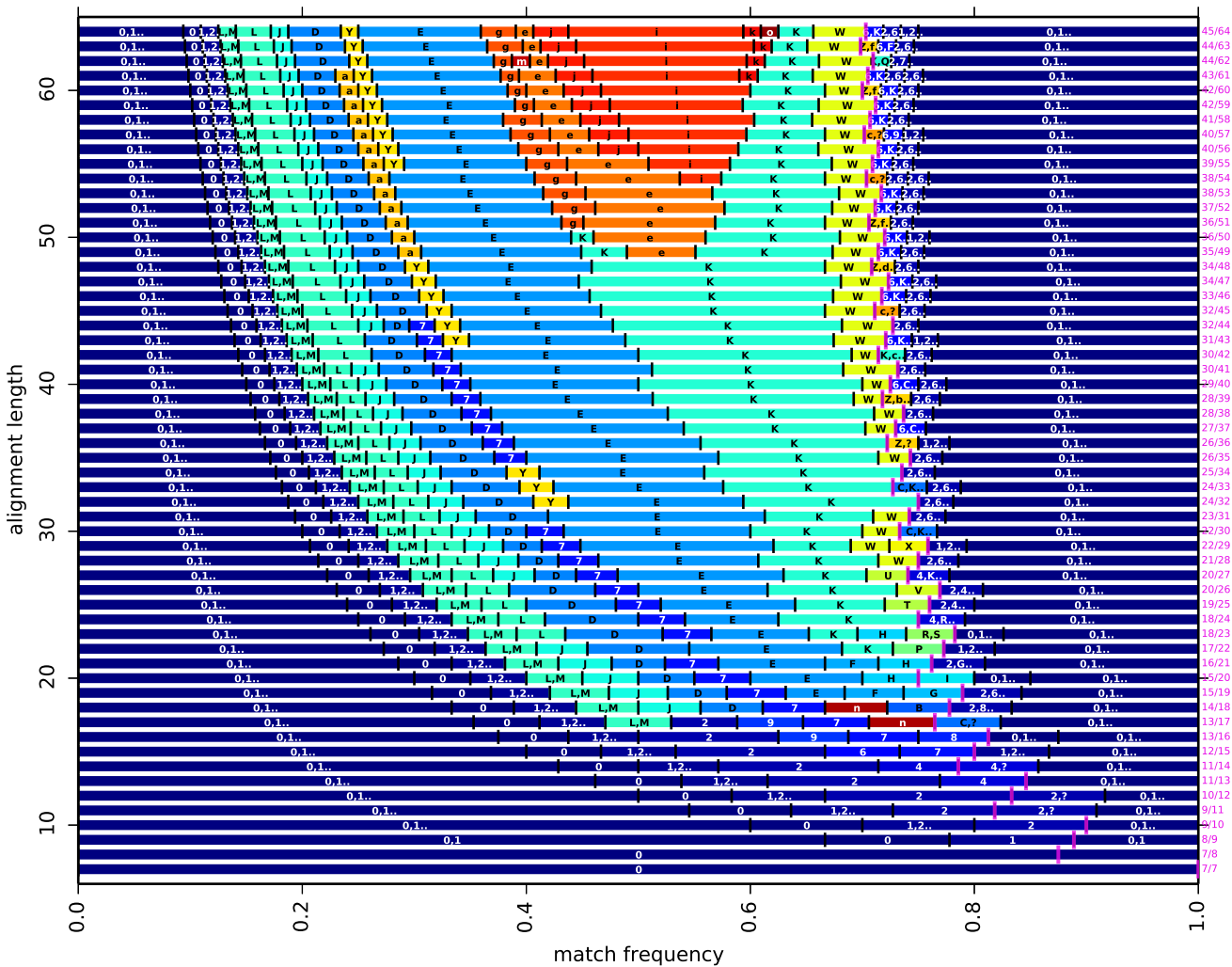
```

```

H = 1110111,1101001011,110010001011,1101000000001011
K = 1110111,1101001011,110010001011,110100010000101
O = 1110111,1101001011,1100010001011,11010001000000011
R = 1110111,110101011,1100100111,1101000001011
S = 1110111,11011011,1010010111,1110100011
T = 1110111,110011011,1101000111,10101001011
U = 100110111,1101011001,11110000101,110001010011
V = 1110111,101101011,1100100111,11010001011
W = 1110111,1101001011,1000100010111,1101000100101
e = 111010111,110100001011,11001000001011,10100001000100011
i = 110010011,110001010011,1101000000001011,1100001000000010101
j = 110100111,110001001011,11001000001011,10101000000100011
k = 1101001011,110010001011,101010000100011,1010001000000000111
l = 110101011,101000100111,101000010010011,11001000001000011

```


Dirac (n:4,w:6)



```

0 = 111111,101111,111011,111101
1 = 111111,110111,111101,110101011
2 = 111111,11011011,1100111,110101011
3 = 1110111,11011011,1100010111,1110100011
4 = 1110111,11011011,1101000111,11100001011
5 = 1110111,11110011,110101011,11010000111
6 = 1101111,11110011,110101011,11010000111
7 = 1101111,111010011,110001011,110010000111
8 = 11010111,11011001,1100001011,110010000111
9 = 1011111,11101011,110011011,11010000111
A = 1110111,110100111,111001011,110100000111
B = 11100111,11010101,11001001011,11100000001011
C = 1110111,11001011,11010001011,1100100001011
D = 1011111,11100111,110101011,11010010011
E = 1110111,1101001011,110010001011,1101000100011
F = 11100111,110110101,11001001011,110100000001011
G = 11010111,1110010011,110100001011,110100000000111
H = 1110111,1101001011,110010001011,1101000000001011
I = 1110111,1101001011,110010001011,1100000010001011
J = 1011111,11100111,110101011,110011011
K = 1110111,1101001011,110010001011,110100010000101
L = 1110111,10111101,11011011,111000111
M = 1101111,10111011,11110101,110100111
N = 11100111,10110101,110101011,1101000000111
O = 1110111,1101001011,1100010001011,110100010000000011
P = 11010111,110011011,1101000000111,11100000001000011

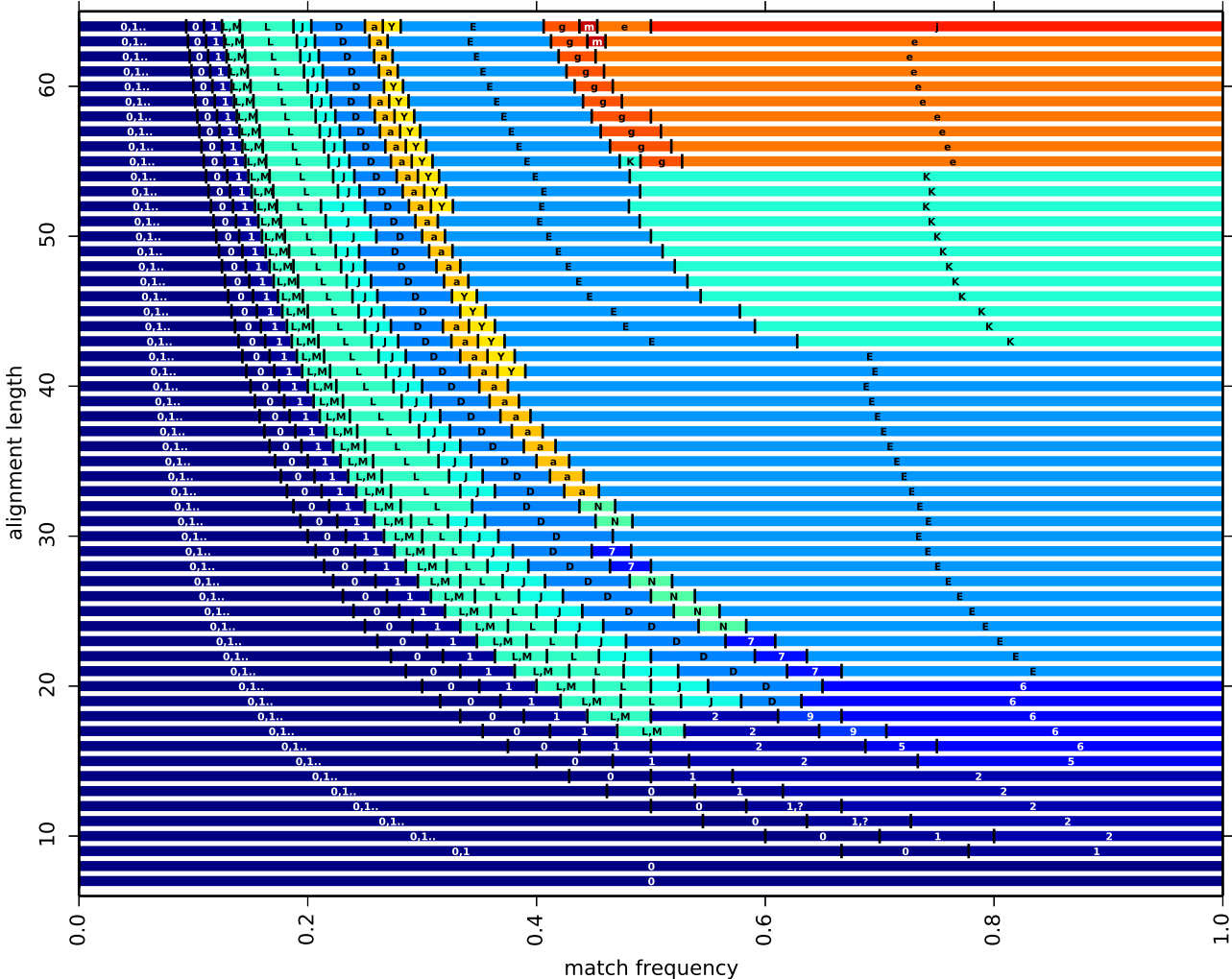
```

```

Q = 1110111,1101001011,110010001011,11010001000011
R = 1110111,110101011,1100100111,1101000001011
S = 1110111,11011011,1100101011,1110100011
T = 1110111,110011011,1101000111,10101001011
U = 100110111,1101011001,11110000101,110001010011
V = 1110111,101101011,110010111,11010001011
W = 1110111,1101001011,100010001011,1101000100101
X = 1110111,100101111,11001011,1110000001011
Y = 10111011,111000111,1101001011,110100010011
Z = 1101111,110010111,1101000111,10101001011
a = 1101111,111010011,110001011,111001000011
b = 1110111,110010111,110100001011,1111000000001001
c = 11010111,110011011,11110100001,1000000101111
d = 1110111,110010111,1101001011,1101000000111
e = 11010111,110100001011,11001000001011,10100001000100011
f = 1110111,1000101111,1010010111,11011001001
g = 110101011,11001001011,11010000010011,11100010000101
h = 1010111,1101100101,1110010011,110101000011
i = 1100100111,110001010011,1101000000001011,1100001000000010101
j = 110100111,110001001011,1100100001011,10101000000100011
k = 1101001011,110010001011,101010000100011,101000100000000000111
l = 110101011,101000100111,101000010010011,11001000001000011
m = 101101011,11100010101,11001001000011,1100100000010011
n = 11100111,110101011,11001001011,11010000000111
o = 1110111,11010001011,10100001001011,10100001000100011
p = 11100111,110101011,110011001011,1101000000111

```

$$\sum_0^x \text{Heaviside}(n;4,w;6)$$

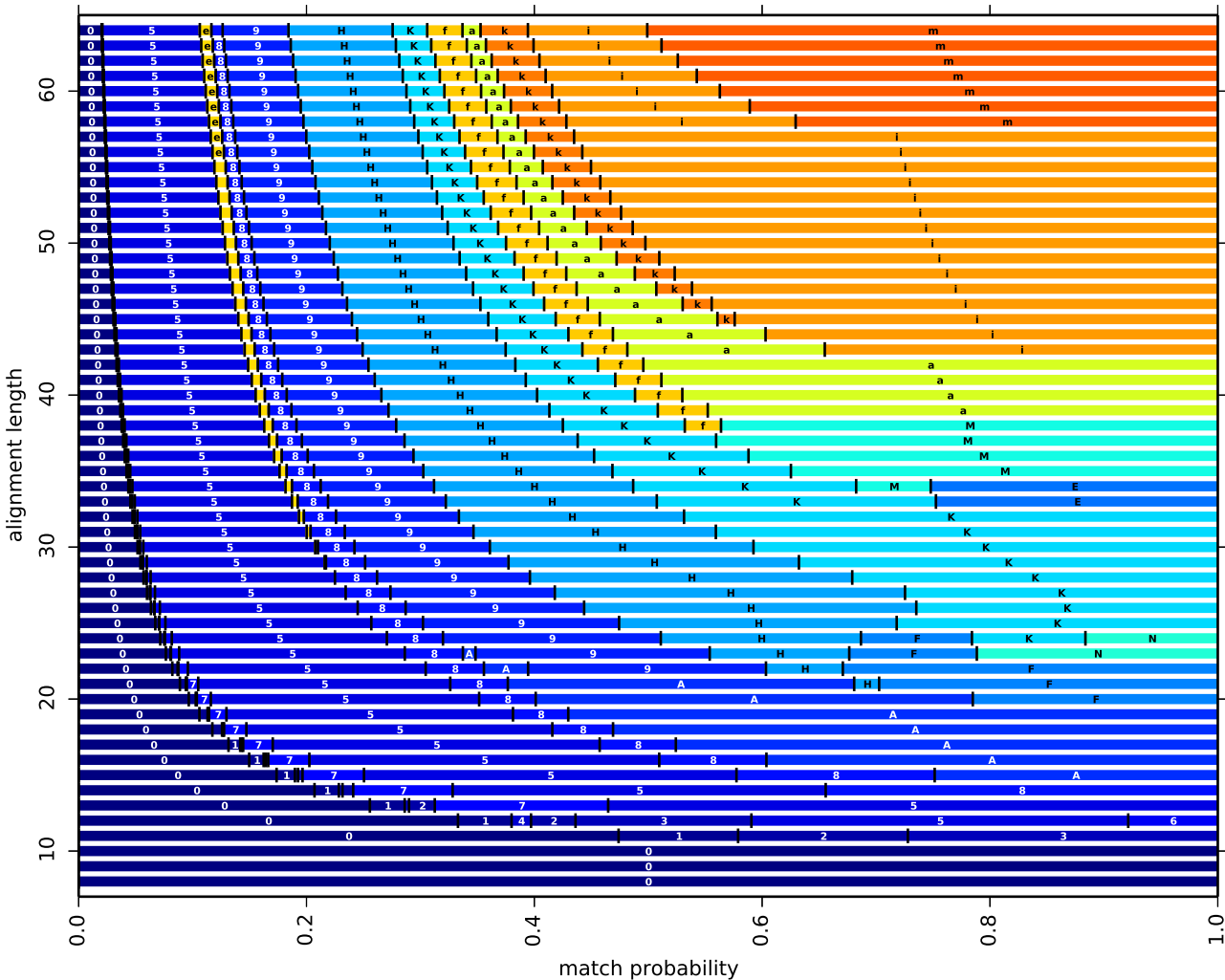


```

0 = 111111,1011111,1110111,1111011
1 = 111111,1101111,1111011,110101011
2 = 111111,1101011,1110011,110101011
3 = 1110111,1101011,110001011,1110100011
4 = 1110111,1101011,110100011,11100001011
5 = 1101111,11110011,110101011,11010000111
6 = 1101111,11110011,110101011,110100000111
7 = 1101111,111010011,1110001011,11100000111
8 = 11010111,11011001,11100001011,1100100000111
9 = 1011111,11101011,110011011,11010000111
A = 1110111,11010011,111001011,110100000111
B = 1110011,110101011,11001001011,11100000001011
C = 110111,11001011,11010001011,1100100001011
D = 101111,1110011,1101011,110100111,11010010011
E = 1110111,1101001011,110010001011,1101000100011
F = 1110011,110101011,11001001011,110100000001011
G = 1101011,1110010011,110100001011,110100000001011
H = 1110111,1101001011,110010001011,1101000000001011
I = 1110111,1101001011,110010001011,1100000010001011
J = 1011111,1110011,101101011,110011011
K = 1110111,1101001011,110010001011,110100010000101
L = 1110111,10111101,1101011,111000111
M = 1101111,10111011,11110101,110100111
N = 1110011,10110101,110101011,110100000111
O = 1110111,1101001011,1100010001011,110100010000000011
P = 1101011,110011011,1101000000111,11100000001000011
Q = 1110111,1101001011,110010001011,110100010000011
R = 1110111,110101011,1100100111,1101000001011
S = 1110111,1101011,101001011,1110100011
T = 1110111,11001011,110100011,10101001011
U = 100110111,110101001,11110000101,110001010011
V = 1110111,101101011,110010011,11010001011
W = 1110111,1101001011,100010001011,1101000100101
X = 1110111,10010111,111001011,11110000001011
Y = 10111011,1110001011,1110001011,110100010011
Z = 110111,11001011,110100011,10101001011
a = 110111,111010011,1110001011,111001000011
b = 111011,11001011,110100001011,1111000000001001
c = 1101011,110011011,11110100001,100000101111
d = 111011,11001011,1101001011,1101000000111
e = 1101011,110100001011,11001000001011,101000010001000011
f = 111011,100010111,101001011,11011001001
g = 110101011,11001001011,11010000010011,11100010000101
h = 1010111,1101100101,1110010011,110101000011
i = 10010011,110001010011,110100000001011,110000100000010101
j = 11010011,110001001011,1100100001011,1010100000100011
k = 110100101,110010001011,101010000100011,1010001000000000111
l = 11010101,10100010011,101000010010011,1100100000100011
m = 101101011,11100010101,11001001000011,1100100000010011
n = 1110011,110101011,11001001011,11010000000111
o = 111011,11010001011,10100001001011,10100001000100011
p = 1110011,110101011,11001001011,1101000000111

```


\int_0^x Hit Integration (n:4,w:7)



```

0 = 1111111,10111111,11101111,11111011
1 = 1111111,11011111,11110111,111101011
2 = 1111111,11010111,111011011,111100111
3 = 1111111,11011011,11100111,1110101011
4 = 1111111,1101111,111010111,111101011
5 = 1011111,111011011,11110011,1110101011
6 = 1111111,110110111,11100111,111010011
7 = 1111111,11011011,11100111,1110101011
8 = 1101111,111101011,110100111,11100110011
9 = 1101111,111101011,11100110011,111010001011
A = 1110111,11011011,1110101011,111010001111
E = 11010111,11101100101,1110001001101,11001010000111

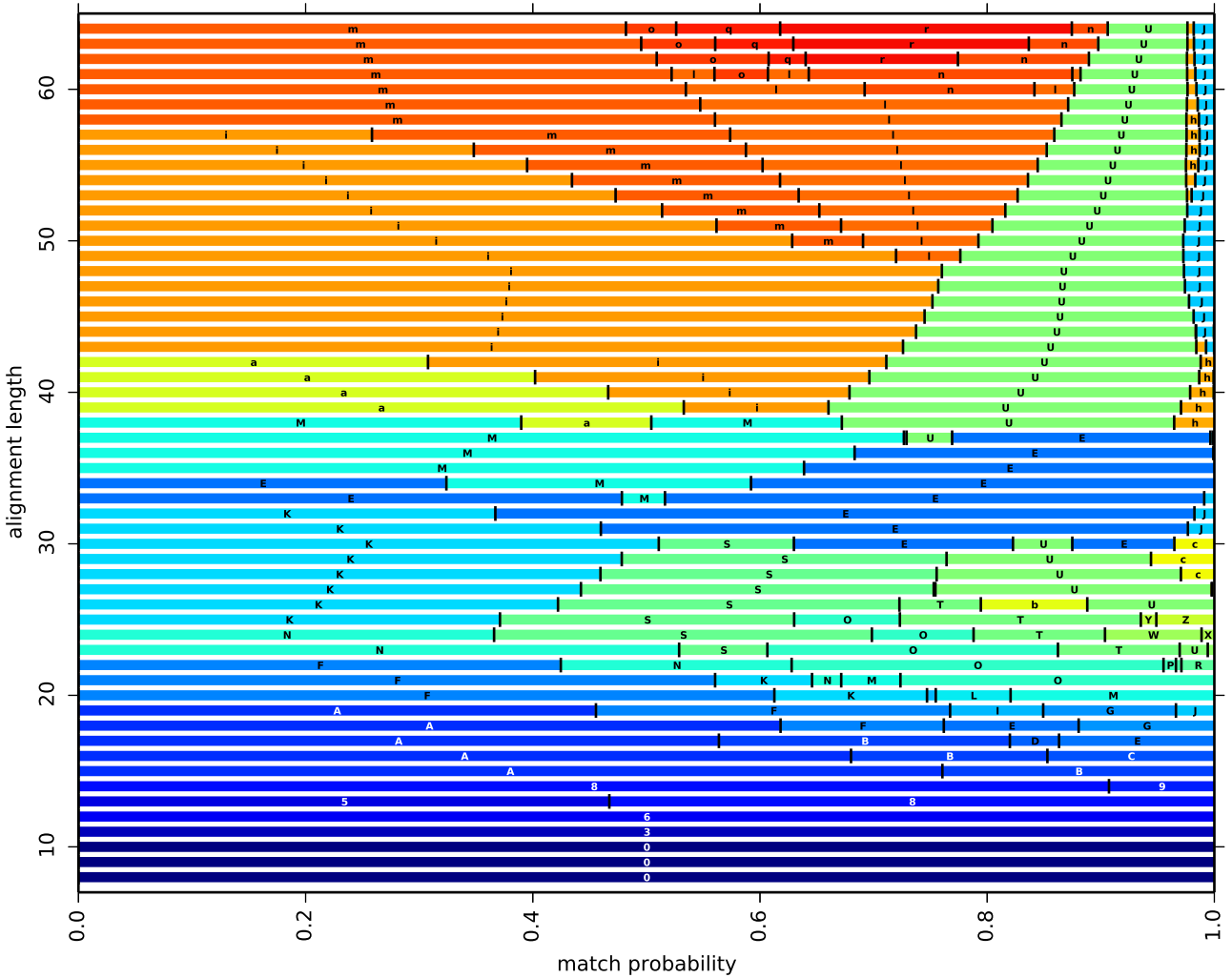
```

```

F = 11010111,11011001011,11100110011,11101000000111
H = 11010111,11011001011,11100110011,1101010000111
K = 11010111,11100110011,111010001011,11001010000111
M = 11011011,11101010011,1110000101011,110010010000111
N = 11010111,11011001011,11100110011,11101000000111
a = 11011011,11101010011,1110000101011,1101001000000111
e = 1011111,111010111,11101101,11001100111
f = 10110111,11101010011,1110000101011,110010010001011
i = 110101011,111001001011,110100100010011,11001000000100111
k = 11011101,110101000111,11100001010011,11010010000001011
m = 110101011,111001001011,110100100010011,111000100000010011

```

\int_x^1 Hit Integration (n:4,w:7)



```

0 = 1111111,10111111,11101111,11111011
3 = 1111111,110110111,111001111,110101011
5 = 10111111,111011011,111100111,1110101011
6 = 11111111,110110111,111001111,11101010011
8 = 11011111,111101011,1101001111,11100110011
9 = 11011111,111101011,11100110011,111010001011
A = 11101111,110110111,1110101011,11010001111
B = 11101111,1101100111,11100010111,11010100101
C = 101110111,1110011011,11101000111,110100101011
D = 110110111,10110001111,11101010011,1110000101011
E = 110101111,11101100101,1110001001101,11001010000111
F = 110101111,11011001011,11100110011,11101000000111
G = 110101111,11101100101,11001010000111,11100001001101
I = 110101111,11101100101,111100010011,11001010000111
J = 110101111,11101100101,1110001001101,100101000011101
K = 110101111,11100110011,111010001011,11001010000111
L = 110101111,11100110011,111010001011,111010000000111
M = 110110111,11100110011,1110000101011,110010010000111
N = 110101111,11011001011,11100110011,111010000000111
O = 110110111,11101010011,1110000101011,1110010000000111

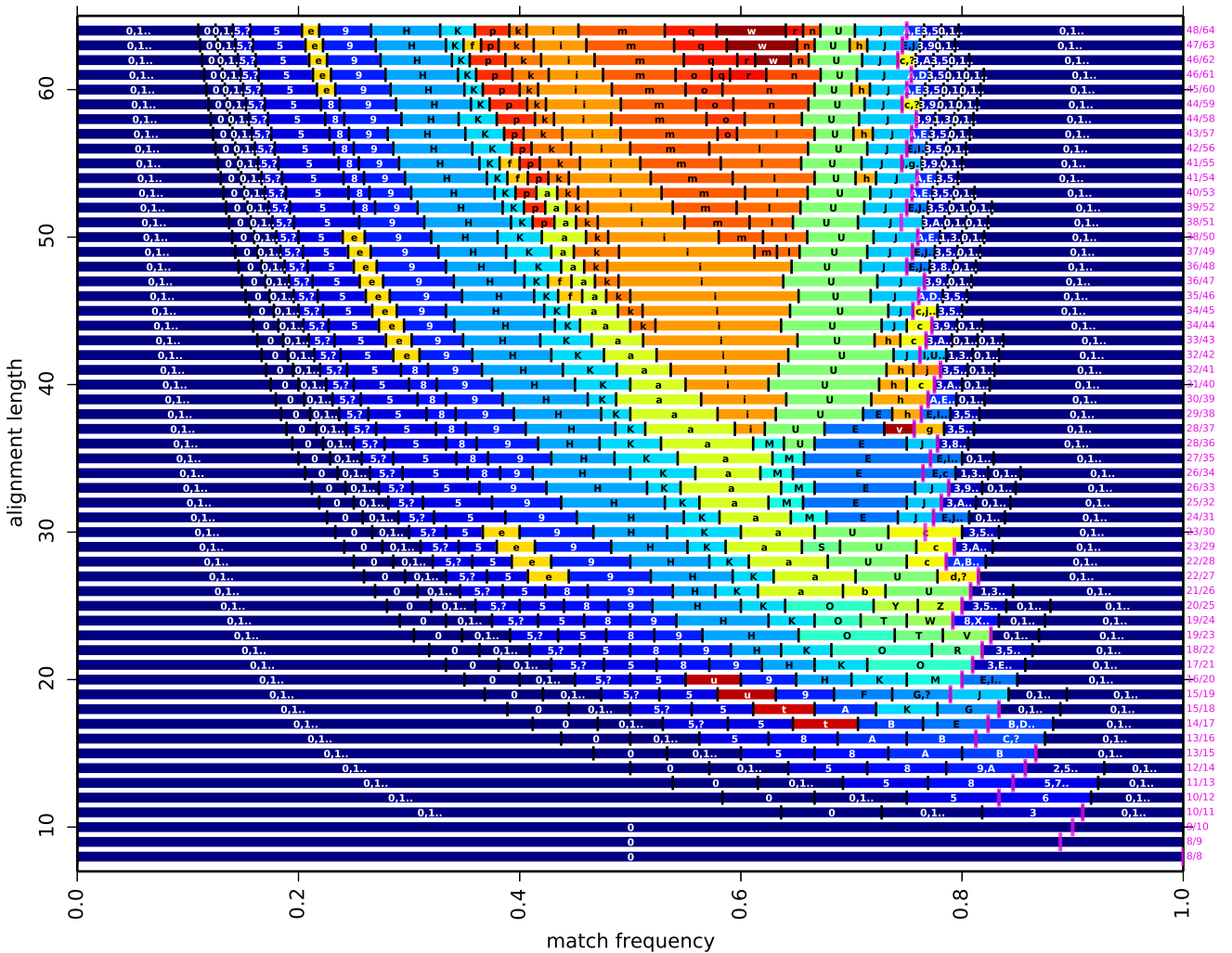
```

```

P = 111010111,110100100111,11101000010011,11100100000001011
R = 111010111,11010010111,111001000010111,11100100000000111
S = 110101111,11100110011,1110100010111,1101001000000111
T = 111011111,11100110011,1110100010111,11010000000010111
U = 11101111,111010001011,110100100001011,110001000100001011
W = 1100101111,111010100011,110100001010011,111001000000010011
X = 100101111,111010100011,110100001010011,11001000000100111
Y = 1101010111,1110011001011,1110010000001011,110010000000100111
Z = 1101010111,1110011001011,1110010000001011,1100100000001000111
a = 110110111,11101010011,1110000101011,1101001000000111
b = 11101111,111010001011,110100100001011,11001000010001011
c = 110101111,11101100101,111100010011,1010000111011
h = 110101111,11101100101,1110001001101,11000101000010011
i = 1101010111,111001001011,1101001000010011,110010000000100111
l = 1101010111,111001001011,11010010000100011,1110000100000010011
m = 1101010111,111001001011,11010010000100011,111000100000010011
n = 11010010111,1110001001011,11010001000010011,111001000000001000101
o = 1101010111,1110011001011,11010010000100011,1110001000000100101
q = 11010010111,1101000100001011,1010001000001000111,1100010010000000010011
r = 11010010111,1101000100001011,1100100001000010011,1010001000010000010011

```

Dirac (n:4,w:7)



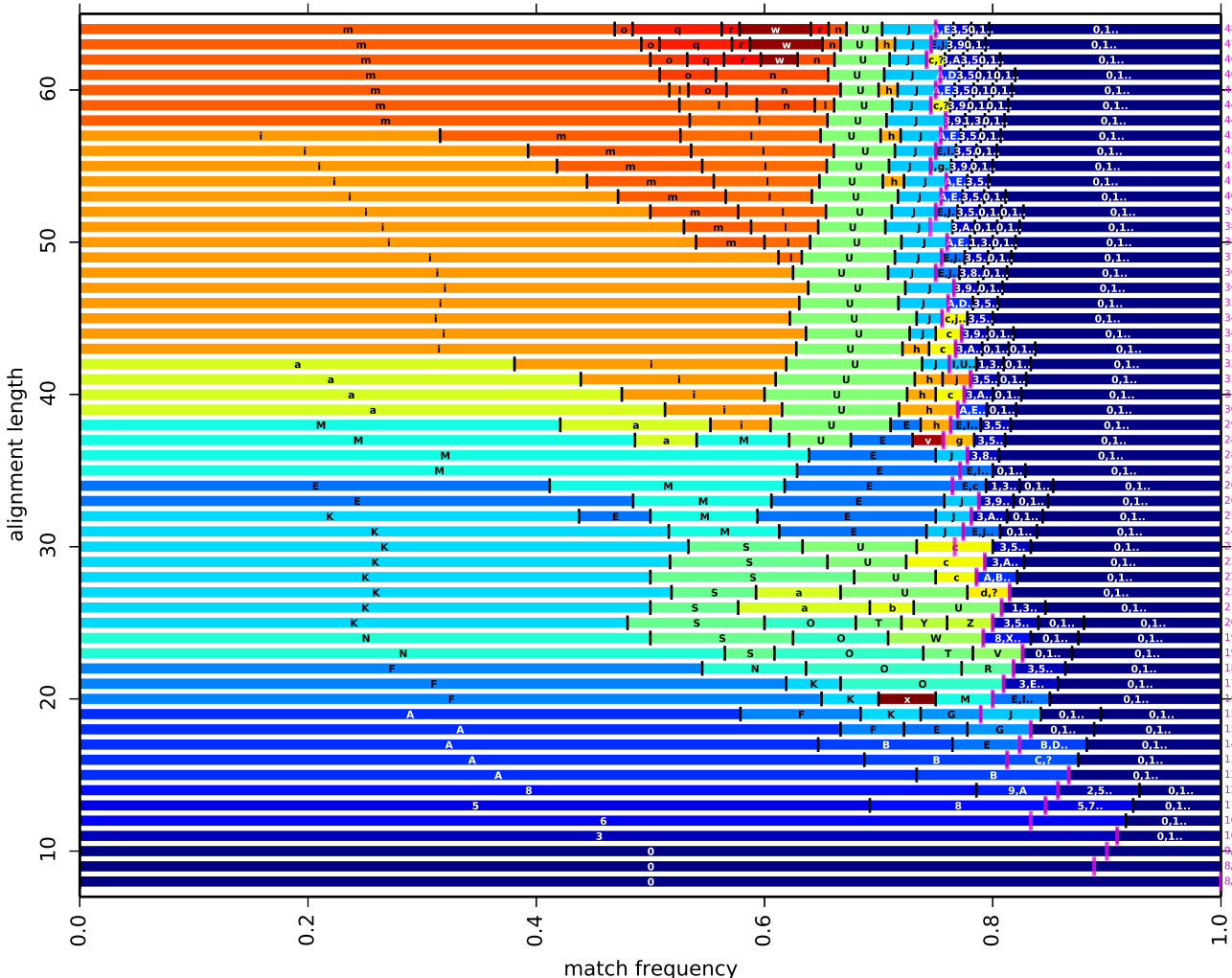
```

0 = 1111111,1011111,1110111,11111011
1 = 1111111,1101111,1110111,11101011
2 = 1111111,1101011,11011011,11110011
3 = 1111111,1101011,1100111,11101011
4 = 1111111,1101111,1101011,11101011
5 = 1011111,1101011,11110011,11101011
6 = 1111111,1101011,1100111,11101011
7 = 1111111,1101011,1100111,11101011
8 = 1101111,11101011,11010011,1110010011
9 = 1101111,11101011,11001001,111010001011
A = 1101011,1101011,11101011,1101000111
B = 1110111,11010011,110001011,1101010011
C = 1011011,11100101,1110100011,1101001011
D = 1101011,1011000111,1110100011,111000010011
E = 1101011,111010011,11000100101,110010000111
F = 1101011,110100101,1110010011,111010000011
G = 1101011,110100101,11001000011,11100001001101
H = 1101011,110100101,1110010011,110100000111
I = 1101011,111010010,11100010011,1100100000111
J = 1101011,111010010,111000100101,10010100001101
K = 1101011,1110010011,11101000101,110010000111
L = 1101011,1110010011,11100001011,11101000000111
M = 1101011,1110010011,11100001011,1100100000111
N = 1101011,1110100101,1110010011,11101000000111
O = 1101011,1110100101,11100001011,111001000000111
P = 11101011,1101001011,1110100001011,1110010000001011
Q = 1101011,11100010011,11010010001011,1110100000001011
R = 11101011,1110100101,1110010000101,1110010000000111
S = 1101011,1110010011,11101000101,1101001000000111
T = 1101011,1110010011,11101000101,1101000000001011
    
```

```

U = 1110111,111010001011,110100100001011,110001000100001011
V = 1101011,11010100011,111000001011,11010000000010011
W = 11001011,111010100011,110100001010011,11001000000010011
X = 11001011,11101010001,111000001010011,110010000000100111
Y = 110101011,111001001011,110010000001011,110010000000100111
Z = 110101011,111001001011,1110010000001011,1100100000001000111
a = 1101011,11101010011,1110000101011,1101001000000111
b = 1110111,11101000101,110100100001011,11001000010001011
c = 1101011,11101100101,111100010011,1010000111011
d = 1110111,111011001,1110010011,1101010000111
e = 1011111,11101011,11101011,11001100111
f = 1011011,111010011,111000010101,11001001001011
g = 1101011,11101100101,111000100101,1100101000010101
h = 1101011,11101100101,111000100101,11000101000010011
i = 1101011,11100100101,110100100010011,110010000001000111
j = 1101011,11101100101,1011000100101,110001010000111
k = 1101101,11010100011,11100001010011,11010010000001011
l = 1101011,11100100101,110100100010011,1110000100000010011
m = 110101011,11100100101,110100100010001,111000100000010011
n = 1101001011,111000100101,1010000100010011,111001000000001000101
o = 110101011,11100100101,110100100010001,1110001000000100101
p = 101100111,1110101011,111000010101,1101001000000111
q = 1101001011,11100001000101,110100010000100011,110001010000000010011
r = 110101011,11100001000101,110000001000101,1010001000010000100011
s = 1111111,1101111,11101011,1110010111
t = 1101111,11110101,1110010011,110100001111
u = 1101111,11110101,1101000111,1110010011
v = 1101011,1110100101,1011000100101,11001010000111
w = 1101001011,11010001000101,10100010000100011,1100010010000000100101
x = 1101011,1110101011,111000010101,111001000000111
    
```


$$\sum_x^1 \text{Heaviside}(n:4,w:7)$$



```

0 = 1111111,1011111,11101111,11111011
1 = 1111111,1101111,11110111,111101011
2 = 1111111,11010111,11011011,111100111
3 = 1111111,11011011,11100111,110101011
4 = 1111111,11101111,11010111,111101011
5 = 1011111,11010101,111100111,1110101011
6 = 1111111,11011011,11100111,1110101011
7 = 1111111,11011011,11100111,1110101011
8 = 1101111,11101011,110100111,11100110011
9 = 1101111,11101011,1110011001,111010001011
A = 1101011,11010111,111010101,110100001111
B = 1110111,110110011,1110001011,110101001011
C = 10111011,1110011011,1110100011,110100101011
D = 11011011,1011000111,11101010011,1110000101011
E = 11010111,11101100101,1110001001101,11001010000111
F = 11010111,1101100101,11100110011,11101000000111
G = 11010111,11101100101,11001010000111,11100001001101
H = 11010111,1110110011,1110011011,1101010000111
I = 11010111,11101100101,11100010011,11001010000111
J = 11010111,11101100101,1110001001101,100101000011101
K = 11010111,11100110011,111010001011,11001010000111
L = 11010111,11100110011,111010001011,111010000000111
M = 11011011,1110100111,11100001011,110010010000111
N = 11010111,11101001011,11100110011,111010000000111
O = 11010111,1110100101,1110000101011,1110010000000111
P = 11101011,11010010011,11101000010011,1110010000001011
Q = 11010111,11100010011,11010010001011,11101000000010011
R = 11101011,11101001011,1110010000101,1110010000000111
S = 11010111,11100110011,111010001011,1101001000000111
T = 11010111,11100110011,111010001011,1101000000001011

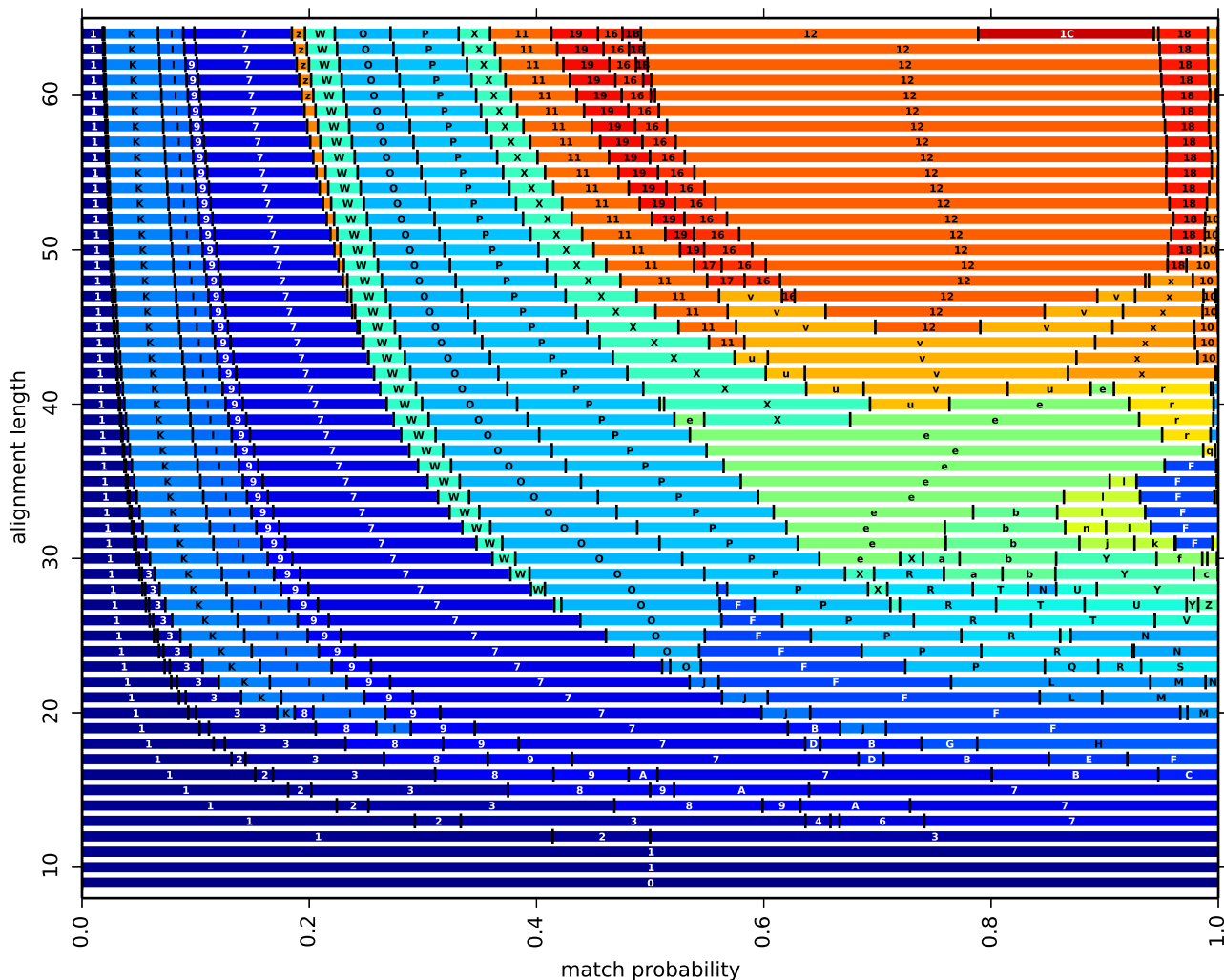
```

```

U = 11101111,111010001011,110100100001011,110001000100001011
V = 11010111,11010100011,1110000011011,11101000000010011
W = 110010111,111010100011,110100001010011,111001000000010011
X = 110010111,111010100011,110100001010011,11001000000010011
Y = 110101011,111001001011,111001000001011,110010000000100111
Z = 110101011,111001001011,1110010000001011,1100100000001000111
a = 11010111,11101010011,1110000101011,110100100000111
b = 1110111,111010001011,110100100001011,11001000010001011
c = 11010111,11101100101,111100010011,1010000111011
d = 1110111,1110110011,10010010111,1101010000111
e = 1011111,11101011,111101101,11001100111
f = 10110111,11101010011,1110000101011,110010010001011
g = 11010111,11101100101,1110001001101,1100101000010101
h = 11010111,11101100101,1110001001101,11000101000010011
i = 11010111,11100100101,110100100010011,110010000000100111
j = 11010111,11101100101,10110001001101,110001010000111
k = 11011011,11010100011,11100001010011,11010010000001011
l = 110101011,11100100101,111000100010011,1110000100000010011
m = 110101011,11100100101,1101001000100011,111000100000010011
n = 1101001011,111000100101,101000100010011,11100100000001000101
o = 110101011,11100100101,1101001000100011,1110001000000100101
p = 101100111,11101010011,111000010101,110100100000111
q = 1101001011,11010001000101,11000010000100011,1100010000000010011
r = 1101001011,1110001000101,1100000001000101,1010001000010000100011
s = 1111111,1101111,11110111,1110010111
t = 1101111,11110101,11100110011,110100001111
u = 1101111,11110101,1101000111,11100110011
v = 11010111,11101100101,1011000100101,11001010000111
w = 1101001011,11010001000101,10100010000100011,1100010010000000100101
x = 11011011,11101010011,1110000101011,111001000000111

```

Bernoulli (n:4,w:8)



```

0 = 11111111,10111111,11101111,111111011
1 = 11111111,11011111,11110111,111110111
2 = 11111111,11011111,11110111,111101011
3 = 11111111,110110111,1110111011,1111010111
4 = 110111111,101111011,1111101011,11100110111
6 = 111101111,1101110111,1100101111,111111001011
7 = 110111111,1111101011,111001100111,11010010011
8 = 101111111,1110110111,1111001111,11110101011
9 = 110111111,1111011011,1111100111,11100110111
A = 111011111,1111101011,1101001111,111001100111
B = 111101111,1101110111,111010011011,1111001000111
C = 110101111,110111010011,111001100111,11110000101011
D = 110111111,1111101011,110101001111,111100110011
E = 111101111,11100110111,110100101011,11111010001011
F = 1101101111,11110011011,1110101000111,110100001010111
G = 111101111,1101110111,111010010111,111100010001011
H = 111101111,1101110111,111010010111,111010000010111
I = 110111111,1111011011,1111100111,11101010111
J = 111101111,1101110111,111101001011,111010001000111
K = 101111111,1110110111,1111011101,11111010111
L = 111010111,11010010111,1110110001011,1110100000100111
M = 101110111,11010010111,11100110001011,1111010001000011
N = 111010111,111010001011,111001000101011,111001000000100111
O = 110101111,111011001011,111010010011,111001100000111
P = 110110111,111000101011,1101010001011,11100100010000111
Q = 111010111,110010100111,11101000101011,11100100000010111
R = 111010111,11010010111,11100100001011,111001000001000111
S = 110110111,11100010111,111010100001011,111001001000000111
T = 111010111,111010010011,110110001010011,111001000000100111
U = 1101101011,1110100010011,1110010000100011,1110000100001000111

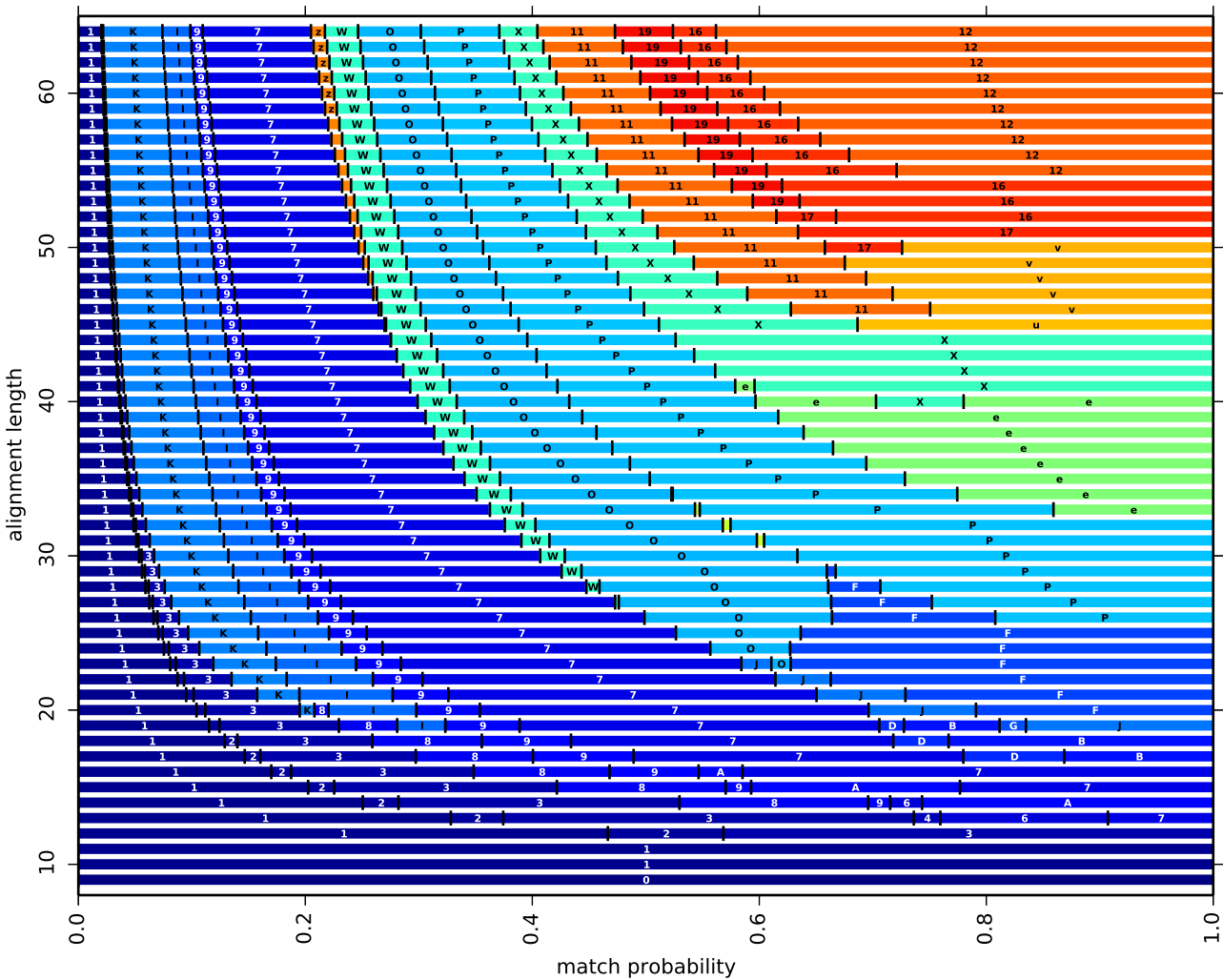
```

```

V = 111010111,111010010011,1110010001010011,11100010000000100111
W = 101111011,1110100111,110110101011,11100010010111
X = 111011011,111000101011,111010100001011,11010010010000111
Y = 1101101011,1110100010011,11100100001000011,11100001000000100111
Z = 1110101011,1110100010011,1110010000100011,1110010000000010111
a = 111011011,111010001011,111010100001011,111000010010000111
b = 111010111,111010001011,11001010001011,1110001000000100111
c = 111010111,111010001001011,1101001000110011,1110100000000010111
e = 110110111,111000101011,1101010001011,11100100100001011
f = 1101101011,110100110011,110100001001011,11101000000000001011
j = 111011011,1101001001011,1110001000100011,11010001000000100111
k = 111010111,111010001001011,1101001000110011,11010100000000001011
l = 11011111,111001101011,111010001011,111001010001011
n = 1101101011,1110100010011,111001000010001011,1101001000000000100111
q = 11011111,11100110011,111010010001011,1110100001001011
r = 111011011,111000101011,11011010001101,111000100100001101
u = 111010111,1101000101011,111010100001011,110100100001000111
v = 111011011,110011001011,1110100000101011,1110001010000001011
x = 110110111,11100110011,11101000001010011,1110001000001011
z = 101111011,1110100111,1101101011,111000100111
10 = 111010111,1101001100011,11010100001011,1101010001000000111
11 = 1101101011,1110100010011,1110010010100011,111000100000101011
12 = 1101101011,1110100010011,111001000010001011,1101000010000010001011
16 = 1110101011,11100010011,11100100001001011,11100010000010001011
17 = 1101101011,1110100010011,1110010010100011,11100100000010001011
18 = 1101101011,111010001001101,1110010100100011,111000001000010001011
19 = 1110101011,1110100010011,11100100001001011,11100010000010001011
1B = 1101101011,1110100010011,111001000010001011,11100010000010001011
1C = 11101001011,110100010001011,11010001000010001011,110100100001000000110011

```

\int_0^x Hit Integration (n:4,w:8)



```

0 = 11111111,10111111,11101111,11111101
1 = 11111111,11011111,11101111,11111101
2 = 11111111,11011111,11111011,11101101
3 = 11111111,11011011,11101101,11101011
4 = 11011111,10111011,11111011,1110011011
6 = 11110111,11011011,1100101111,1111100101
7 = 11011111,1111101011,111001100111,111010011011
8 = 10111111,1110101111,1111001111,1111010101
9 = 11011111,1111101011,1111100111,1110010111
A = 11110111,1111101011,1101001111,111001100111
B = 11110111,1101110111,111010011011,111100100011
D = 11011111,1111101011,110101001111,111100110011
F = 1101101111,11110011011,111010100011,11010000101011
G = 11110111,1101110111,111010010111,11110001001011
I = 11011111,1111101011,1111100111,1110101011

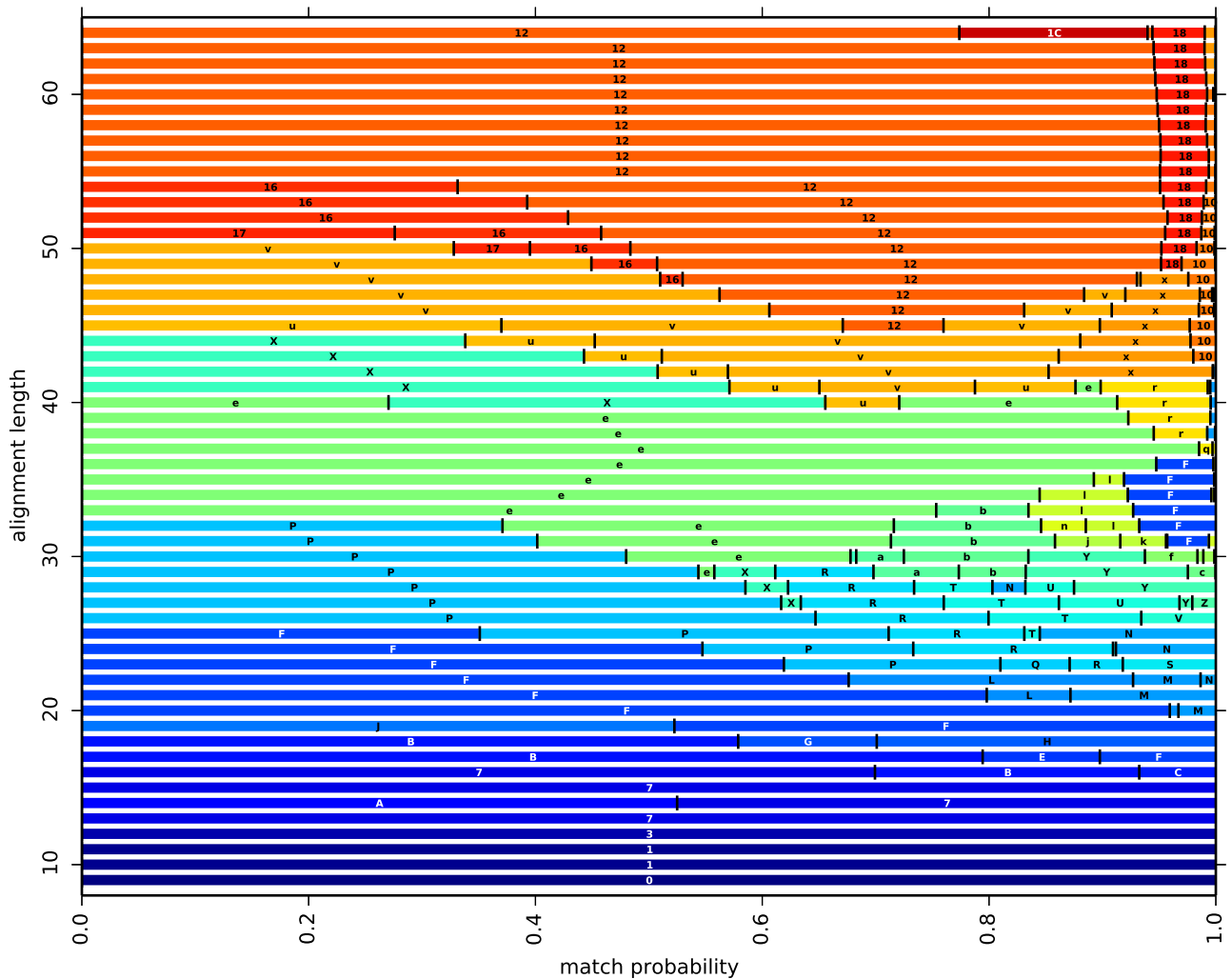
```

```

J = 11110111,1101110111,111010010111,11101000100011
K = 10111111,1110110111,1111011101,1111101011
O = 11010111,111011001011,111100110011,11100101000011
P = 1101101111,111000101011,11010100011011,111001001000011
W = 101111011,1110100111,110110101011,1110001001011
X = 1110110111,111000101011,111010100001011,11101001001000011
e = 1101101111,111000101011,11010100011011,11100100100001011
u = 111010111,1101000101011,111010100001011,11010010000100011
v = 1101011011,11001100100111,110100000101011,1110001010000001011
z = 101111011,1110100111,1101101011,111000110011
11 = 1101101011,11101000100111,1110010010100011,111000100000101011
12 = 1101101011,11101000100111,111001000010001011,1101000010000010001011
16 = 1101101011,11101000100111,11100100001001011,110100010000010001011
17 = 1101101011,11101000100111,1110010010100011,11100100000010001011
19 = 1101101011,11101000100111,11100100001001011,11100010000010001011

```

\int_x^1 Hit Integration (n:4,w:8)



```

0 = 11111111,10111111,11101111,11111101
1 = 11111111,11011111,11101111,11111101
3 = 11111111,11011011,11101101,11110101
7 = 11011111,11111010,11100110,11101001
A = 11101111,11111011,11010011,11100110
B = 11110111,11011011,11101001,11110010
C = 11010111,11011010,11100110,11110001
E = 11110111,11001011,11010010,11111000
F = 11010111,11110010,11101000,11101000
G = 11110111,11011011,11101001,11110001
H = 11110111,11011011,11101001,11110000
J = 11110111,11011011,11101001,11101000
L = 11101111,11010010,11110100,11110100
M = 10110111,11010010,11100100,11110100
N = 11101111,11100100,11100100,11100100
P = 11010111,11000101,11010001,11100100
Q = 11010111,11001001,11100100,11100100
R = 11101111,11010010,11100100,11110000
S = 11010111,11000101,11101000,11100100
T = 11101011,11100100,11101000,11100100
U = 11010111,11100010,11110010,11100010
V = 11101011,11100100,11100100,11100100
X = 11110111,11000101,11101000,11100100

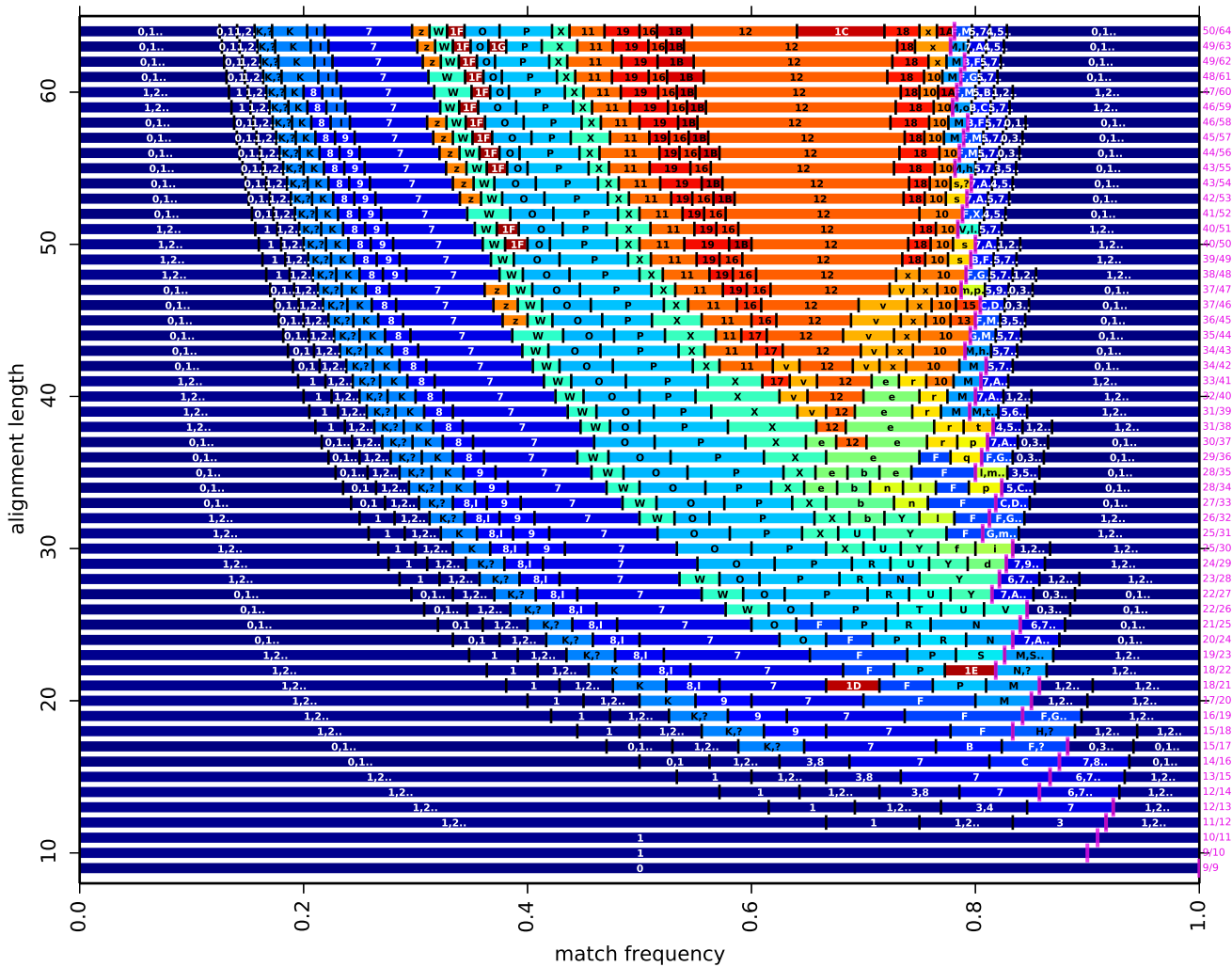
```

```

Y = 11011011,11100010,11100100,11110000
Z = 11010111,11100010,11100100,11100100
a = 11101011,11100010,11100100,11110000
b = 11101011,11100010,11100100,11100000
c = 11101011,11100010,11100100,11100000
e = 11010111,11100010,11101000,11100100
f = 11101011,11100100,11101000,11101000
j = 11101011,11100100,11100010,11100010
k = 11101011,11100010,11101000,11101000
l = 11010111,11100101,11100010,11100100
n = 11010111,11100010,11100100,11100100
q = 11010111,11100100,11101000,11101000
r = 11101011,11100010,11101000,11100010
s = 11101011,11100010,11101000,11100010
u = 11010111,11100010,11101000,11101000
v = 11010111,11100100,11101000,11100010
x = 11010111,11100100,11101000,11100010
10 = 11101011,11100100,11101000,11100010
12 = 11010111,11100010,11100100,11100010
16 = 11010111,11100010,11100100,11100010
17 = 11010111,11100010,11100100,11100010
18 = 11010111,11100010,11100100,11100010
1C = 11100101,11100010,11100010,11100010

```

Dirac (n:4,w:8)



```

0 = 11111111,10111111,11101111,111111011
1 = 11111111,11011111,11110111,111111011
2 = 11111111,11011111,11110111,111101011
3 = 11111111,110110111,111011011,111101011
4 = 11011111,101110111,111101011,1110011011
5 = 11011111,111101011,111110101,1110011011
6 = 11110111,110110111,110010111,11111001011
7 = 11011111,1111101011,11100110011,111010011011
8 = 10111111,111011011,111100111,11110101011
9 = 11011111,111101011,111100111,11100101011
A = 11101111,1111101011,110100111,11100110011
B = 11110111,110110111,11101001011,11110010011
C = 11010111,11011101011,1100110011,11110000101011
D = 11011111,1111101011,1110100111,11110010011
E = 11110111,1110010111,110100101011,1111010001011
F = 110110111,1111001011,1110101000111,11010000101011
G = 11110111,110110111,11101001011,1111001001011
H = 11110111,110110111,11101001011,11101000010111
I = 11011111,111101011,1111100111,1110100111
J = 11110111,110110111,11101001011,111010000100111
K = 10111111,111010111,111101101,1111101011
L = 111010111,1101001011,111010001011,111010000100111
M = 10110111,11010010111,11100110001011,1111010001000011
N = 111010111,11101001011,11100100010011,111001000000100111
O = 11010111,11101001011,111010010011,1110010000011
P = 11010111,111000101011,11010100011011,1110010010000111
Q = 11101011,110010100111,111010001011,1110010000010111
R = 111010111,11010010111,1110100001011,11100100000100111
S = 11010111,111000101011,11101000001011,11100100000000111
T = 111010111,111010010111,11010001010011,111001000000100111
U = 1101101011,1110100010011,1110010000100011,111000010000010001011
V = 111010111,111010010111,111001000101011,11100010000000100111
W = 101111011,1110100111,110110101011,1110000100111
X = 111010111,111000101011,11101000001011,11101001010000111
Y = 1101101011,1110100010011,11100100001000011,1110000100000100001011
Z = 1101101011,1110100010011,1110010000100011,111001000000001011
a = 111010111,1101000101011,111010100001011,111000010010000111
b = 111010111,1110100010111,11001010000011,11100010000001001011
c = 111010111,111010001001011,110100100010011,1110100000000001011
d = 101110111,1111010011,1110010101011,110010010000111

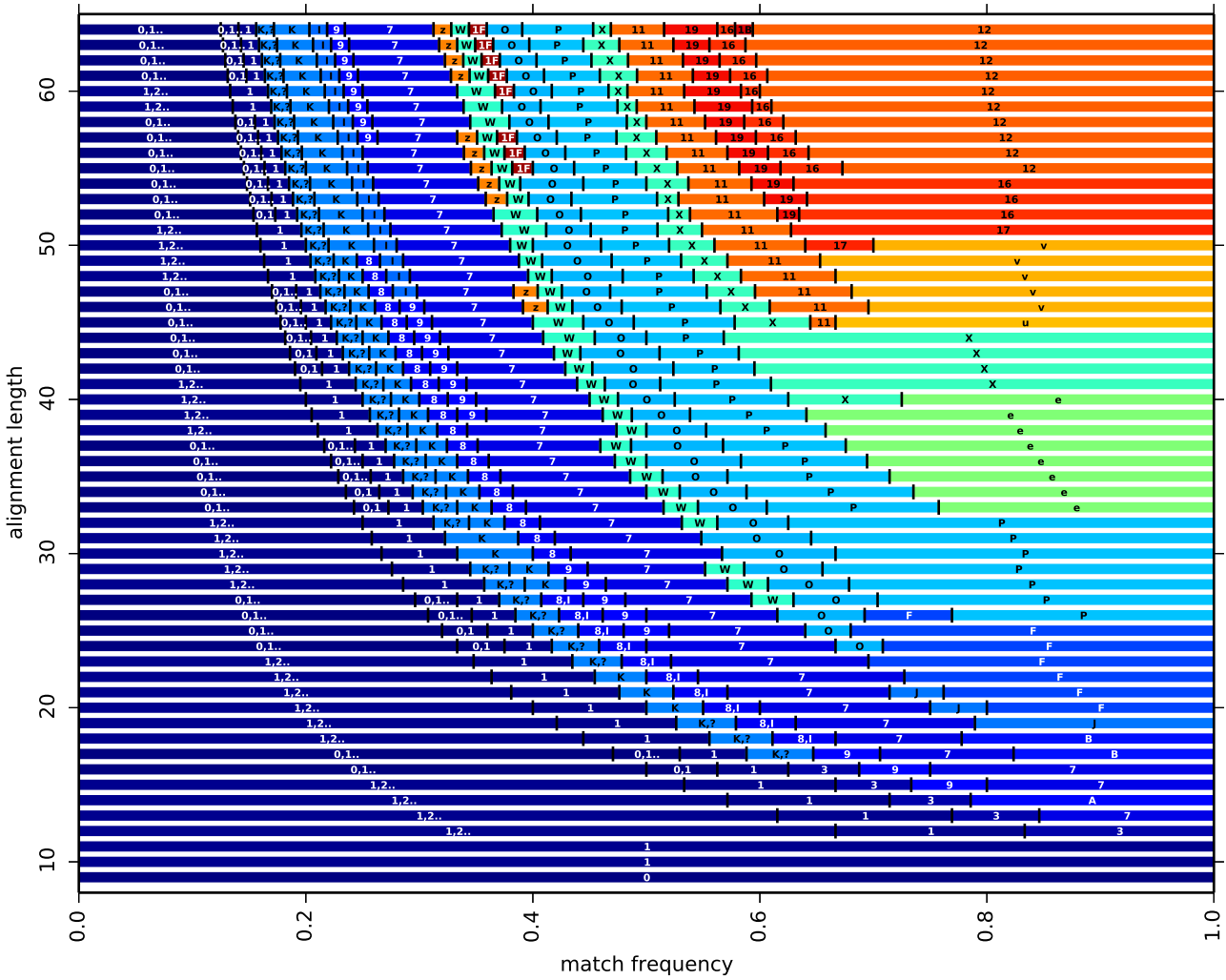
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```

e = 110110111,111000101011,11010100011011,11100100100001011
f = 1110101011,110100110011,110100001001011,111011000000000001011
g = 11110111,111010001011,1100100100001011,11001000010000100111
h = 111010111,11010011011,111101000101,10001000110111
i = 1011110111,1110001111,11101001011,111010010001101
j = 1110110111,1101001001011,11100010001000111,11010000100000100111
k = 111010111,111010001001011,1101000100010011,11010100000000010111
l = 110101111,111001101011,1110100011011,1110010100001011
m = 111010111,11010011011,1111011000101,110100001100111
n = 1101101011,1110100010011,1110010000010001011,11101001000000000100111
o = 110110111,1111001011,1110101000111,1101000010100111
p = 11101111,1101100111,11101001011,1101001000001011
q = 110101111,11100110011,111010010001011,1110100001001011
r = 111010111,111000101011,11011010001101,111000100100001101
s = 11101111,1110100111,11101001011,1010100000001111
t = 11101111,11010010111,111101001011,11101000000111
u = 111010111,110100010111,111010100001011,110100100001000111
v = 1101010111,110011001011,110100000101011,1110001010000001011
w = 110101011,1110101000111,1101000010011,110001010000010111
x = 1101010111,111001010011,111010000010011,110100010000101011
y = 111010111,1101000101011,110101100001011,111000100001000111
z = 101111011,1110100111,110110101011,1110001100111
10 = 1110101011,1101001100011,11010100001011,1101010001000000111
11 = 1101101011,1110100010011,111001001000011,111000100000101011
12 = 1101101011,1110100010011,111001000010011,1101000010000010001011
13 = 1101101011,111001001011,1110101000010011,1101001000001000111
14 = 110110111,111010100011,111010000101011,111001010000100011
15 = 111011111,10100111011,11101010011,1110010100000111
16 = 1101101011,1110100010011,11100100001001011,110100010000010001011
17 = 1110101011,1110100010011,11100100100011,1100100000010001011
18 = 1101010111,11101000100101,1110010100100011,11100001000010001011
19 = 1101010111,1110100010011,1110000001001011,111000010000010001011
1A = 111010111,111001010011,111000000100011,11100010100001001
1B = 1110101011,111000100111,111001000010001011,110100010000010001011
1C = 11101001011,11010001001011,11010000010001011,1010010000100000110011
1D = 111010111,1101110011,110110001011,1111001001011
1E = 110110111,111000101011,1101010001011,1110001000000111
1F = 110101111,110111001011,11101001011,1110100000010111
1G = 1110101011,110010100111,1111000101011,1110001001000111
1H = 1110101011,111000101011,110110100001011,1110001001000111

```

$$\sum_0^x \text{Heaviside}(n;4,w;8)$$



```

0 = 11111111,10111111,11101111,1111110111
1 = 11111111,11011111,11101111,1111110111
2 = 11111111,11011111,1110110111,1111011011
3 = 11111111,1101101111,1110111011,1110110111
4 = 110111111,1011110111,1111101011,11100110111
5 = 110111111,1111010111,1111101011,111001100111
6 = 111101111,1101101111,1100101111,11111001011
7 = 110111111,1111101011,111001100111,111010011011
8 = 101111111,1110110111,1111001111,11101010111
9 = 110111111,1111010111,1111000111,111001010111
A = 111011111,1111101011,1101001111,111001100111
B = 111101111,1101101111,111010011011,1111001000111
C = 110101111,11011101011,111001100111,11110000101011
D = 110111111,1111101011,110101001111,111100110011
E = 111101111,11100110111,111001010111,1111010001011
F = 110110111,11110011011,1110101000111,111010000101011
G = 111101111,1101110111,111010011011,11110010100111
H = 111101111,1101110111,111010011011,11101000010111
I = 110111111,1111010111,1111000111,11101010111
J = 111101111,1101110111,1110100111,1110010001000111
K = 101111111,1110101111,1110111011,11111101011
L = 111010111,111010011011,1110110001011,1110100000100111
M = 101110111,11010010111,11100110001011,1111010001000011
N = 111010111,1110100100111,1110010000100011,111001000000100111
O = 110101111,111010010111,111001100111,111001010000111
P = 110110111,111000101011,111010100011011,1110010010000111
Q = 111010111,110010100111,11101000101011,1110010000010111
R = 111010111,11010010111,11101000010111,11100100001000111
S = 110110111,111000101011,111010100001011,111001001000000111
T = 111010111,1110100100111,111010001010011,111001000000100111
U = 1101101011,11101000100111,11100100001000111,111000010000010001011
V = 111010111,1110100100111,1110010001010011,11100010000000100111
W = 1011110111,1110100111,111010101011,11100010010111
X = 111010111,111000101011,111010100001011,11101001010000111
Y = 1101101011,11101000100111,111001000010000111,1110000100000010001011
Z = 1101101011,11101000100111,11100100001000111,1110010000000010111
a = 111010111,1101000101011,111010100001011,111000010010000111
b = 111010111,1110100010111,111001010000111,11100100000010001011
c = 111010111,111010001001011,1110100100010011,11101000000000010111
d = 1011101111,11110110011,1110010101011,1100100100001111

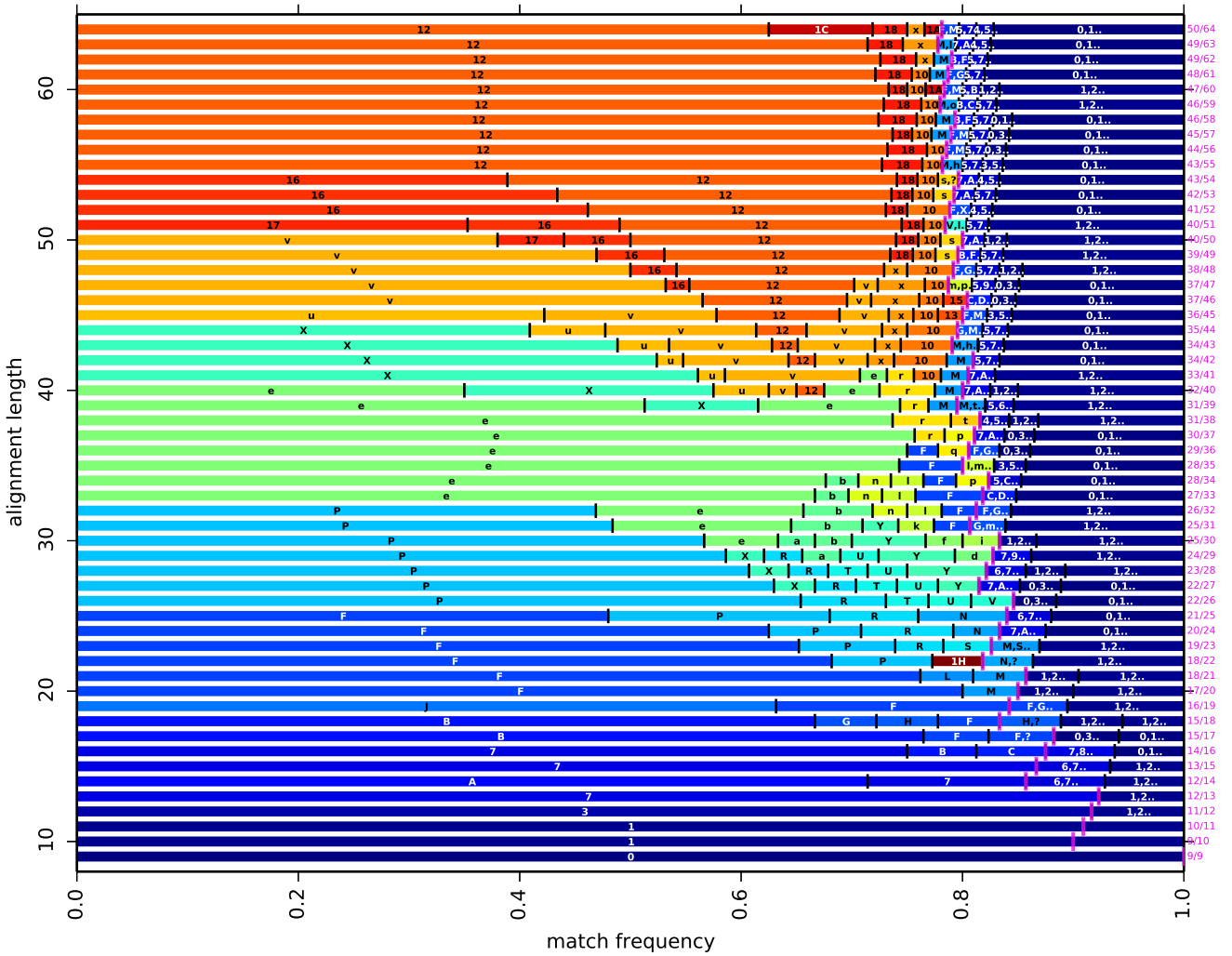
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```

e = 1110101111,1110001010111,11010100011011,11100100100001011
f = 1110101011,110100110011,1101000010010111,111011000000000001011
g = 111011111,1110100010111,11001001000010111,11001000001000111
h = 1110101111,110100110111,111011000101,100010001011111
i = 1011110111,11100011111,111011001011,111010010001101
j = 1110110111,11010010010111,11100010001000111,1101000100000100111
k = 111010111,111010001001011,1101001000110011,11010100000000010111
l = 110101111,111001101011,1110100011011,111001010001011
m = 111010111,11010011011,1111011000101,110100001100111
n = 1101101011,1110100010011,11101000010001011,111010100000000100111
o = 110110111,11110011011,1110101000011,1101000010100111
p = 111011111,11101100111,1110101001011,1101001000001111
q = 110101111,111001100111,111010010001011,1110100001001011
r = 111011011,111000101011,11011010001011,111000100100001101
s = 111011111,11101100111,1110101001011,1010100000001111
t = 11101111,11010011011,111101001011,111010100000111
u = 111010111,110100010111,111010100001011,110100100001000111
v = 1101101011,1100110010011,110100000101011,1110001010000001011
w = 110110111,111010100011,110110001010011,110001001000010111
x = 1110101111,111001010011,11101000001010011,1100010000010011011
y = 111011011,1101000101011,110101100001011,111000100001000111
z = 101111011,1110100111,111010101011,111000100111
10 = 111011011,1101001100011,110101000011011,1101010001000000111
11 = 1101101011,11101000100111,1110010010100011,111000100000101011
12 = 1101101011,1110100010011,111001000010001011,110100001000010001011
13 = 111011011,111001001011,1110101000010011,1101001000001000111
14 = 110110111,111010100011,1110100001010011,111001010000100011
15 = 111011111,101001110111,111011001011,1110010100000111
16 = 1101101011,1110100010011,11100000001001011,1100010000010001011
17 = 1101101011,1110100010011,111001001000011,11100100000010001011
18 = 1101011011,11101000100101,1110010100100011,11100001000010001011
19 = 1101101011,1110100010011,1110000001001011,11100010000010001011
1A = 110110111,111001101011,111000000100011,111000101000011001
1B = 1110101011,1110010001011,111000000001011,111000100000100001011
1C = 1101001011,110100010001011,11010001000010001011,10100100001000000110011
1D = 111010111,1101110011,1101100010111,1111001001011
1E = 110110111,111000101011,1101010001011,1110001000000111
1F = 110101111,110111001011,11100110011,1110100000010111
1G = 111011011,110010100111,1111000101011,1110001001000111
1H = 111011011,111000101011,110110100001011,1110001001000111

```


$$\sum_x \text{Heaviside}(n;4,w:8)$$



```

0 = 11111111,10111111,11101111,111111011
1 = 11111111,11011111,11110111,111111011
2 = 11111111,11011111,11110111,111101011
3 = 11111111,110110111,111011011,111101011
4 = 11011111,101110111,111101011,1110011011
5 = 11011111,111010111,111101101,11100110011
6 = 11110111,110110111,110010111,11111001011
7 = 11011111,111101011,11100110011,11101001011
8 = 10111111,111010111,111100111,11110101011
9 = 11101111,111101011,111110011,11100101011
A = 11101111,111101011,110100111,11100110011
B = 11110111,110110111,11101001011,11110010011
C = 11010111,1101101011,11100110011,111100001011
D = 11011111,111101011,110100111,111100110011
E = 11110111,111001011,1101001011,1111010001011
F = 11011011,1111001011,11101000011,111000001011
G = 11110111,110110111,11101001011,1111001001011
H = 11110111,110110111,11101001011,1110100001011
I = 11011111,111101011,111110011,1110101011
J = 11110111,110110111,11101001011,1110100001011
K = 10111111,111010111,111101101,1111101011
L = 11101011,1101001011,111010001011,1110100001011
M = 10110111,1101001011,11100110001011,111101000100011
N = 11101011,11101001011,111001000100011,11100100000010011
O = 11010111,11101001011,11100110011,1110010000111
P = 11011011,111000101011,1101010001011,111001001000011
Q = 11101011,11001010011,11101000101011,111001000001011
R = 11101011,1101001011,1110010001011,111001000010011
S = 11010111,111000101011,111010100001011,11100100100000011
T = 11101011,11101001011,11101000100011,111001000001011
U = 11011011,111010001011,1110010000100011,1110000100000100011
V = 11101011,11101001011,111001000101011,111000100000010011
W = 101111011,1110100111,11010101011,1110001001011
X = 11101011,111000101011,1110100001011,111001001000011
Y = 11011011,1110100010011,11100100001000011,111000010000010001011
Z = 11011011,111010001011,1110010000100011,111001000000001011
a = 11101011,1101000101011,111010100001011,11100001001000011
b = 11101011,111010001011,11001010000011,111000100000010011
c = 11101011,111010001001011,110100100010011,1110100000000001011
d = 10111011,11110110011,1110010101011,110010010000111

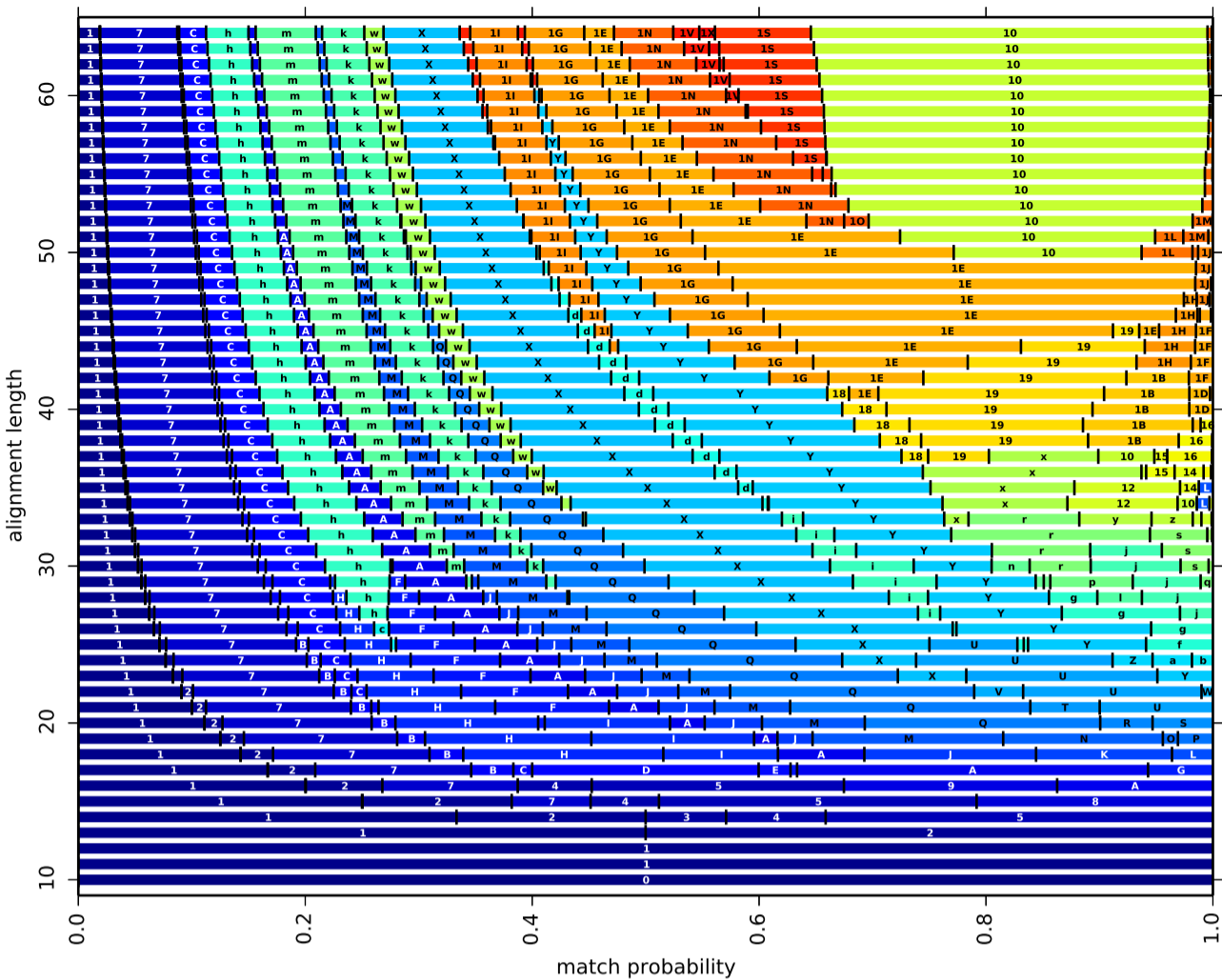
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e = 1110110111,111000101011,11010100011011,11100100100001011
f = 1110101011,110100110011,110100001001011,111011000000000001011
g = 11110111,111010001011,1100100100001011,1100100001000010011
h = 11101011,11010011011,1111011000101,10001000110111
i = 101111011,1110001111,11101100011,11101000111,111010010001101
j = 111011011,1101001001011,1110001000100011,110100010000010011
k = 11101011,111010001001011,110100100010011,1101010000000001011
l = 11010111,111001101011,111010001011,111001010001011
m = 11101011,11010011011,1111011000101,11010000110011
n = 1101101011,1110100010011,111001000010001011,11010010000000010011
o = 11011011,11110011011,111010100011,110100001010011
p = 11101111,1110110011,1110101001011,110101000001011
q = 11010111,11100110011,111010010001011,1110100001001011
r = 11101011,111000101011,11011010001101,1110001000001101
s = 11101111,1110110011,1110101001011,1010010000001111
t = 11101111,1101001011,1111010001011,11101000000111
u = 11101011,1101000101011,111010100001011,11010010000100011
v = 1101101011,110011001011,110100000101011,1110001010000001011
w = 11011011,111010100011,110110001010011,11000100100001011
x = 110110111,111001010011,1110100000100011,11010001000011011
y = 11101011,1101000101011,110101100001011,11100010000100011
z = 101111011,1110100111,110110101011,111000110011
10 = 1110101011,1101001100011,11010100001011,110101000100000111
11 = 1101101011,1110100010011,1110001001000011,111000100000101011
12 = 1101101011,1110100010011,111001000010001011,1101000010000010001011
13 = 111011011,111001001011,1110101000010011,110100100000100011
14 = 11011011,111010100011,1110100001010011,111001010000100011
15 = 11101111,10100111011,11101100101,11100100000111
16 = 1101101011,1110100010011,11100010000101011,11000101000010011
17 = 1101101011,1110100010011,111001001000011,1110010000010001011
18 = 110101011,11101000100101,111001001000011,11100001000010001011
19 = 1101101011,1110100010011,11100100001001011,11100010000010001011
1A = 110101011,11100110011,1110000001010011,1100010100001001
1B = 1101101011,1110010001011,11100000010001011,11000010000010001011
1C = 1110101011,110100010001011,11010001000010001011,1010010000100000110011
1D = 11101011,1101110011,11011000101011,1111001001011
1E = 11011011,111000101011,1101010001011,1110001000000111
1F = 11010111,110111001011,11101001011,111010000001011
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1H = 111011011,111000101011,110110100001011,111000100100011

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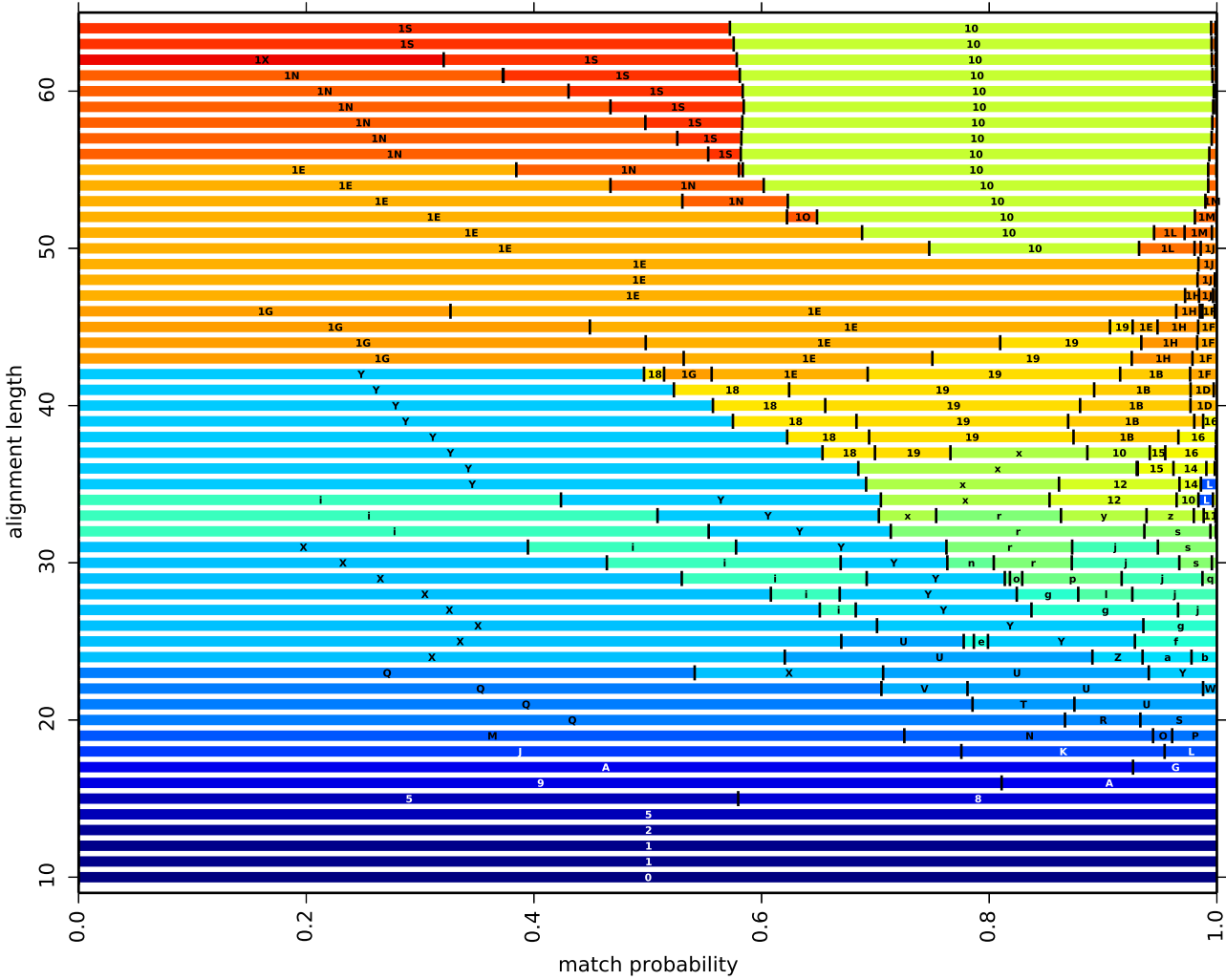
Bernoulli (n:4,w:9)



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0 = 111111111,101111111,111101111,111111011
1 = 111111111,110111111,111101111,111110111
2 = 111111111,110111011,111010111,1111011011
3 = 101111111,111011011,111100111,1111101011
4 = 111101111,111011011,1111101011,1101001111
5 = 110111111,111100111,11111101011,11010110011
7 = 101111111,111011011,1111011011,1111101011
8 = 111011111,111110101,11010011111,11101010011
9 = 110111111,111110101,111010011011,1110111001011
A = 110111111,11111001011,111001110011,1110101011011
B = 110111111,11110111011,11111001111,111010110111
C = 111011111,11011111011,11111100111,11010010111
D = 111101111,11011101111,11111110011,111010010111
E = 111011111,11111101011,110110100111,111000110111
F = 111011111,11111101011,111001100111,1110100110111
G = 111010111,11011110011,1111100101011,11100100110111
H = 111101111,11011101111,11111110011,1111010010111
I = 111011111,11111101011,110110100111,1111000110111
J = 110111111,11111001101,111001010111,1110101100011
K = 111101111,1110110111,111101001011,11101000100111
L = 111010111,11010011011,1111011001011,1110100001001011
M = 101110111,11110110011,1110110101011,11110000110111
N = 111101111,11101110011,1101100010111,11101001001011
O = 111010111,11100111001,1111010001011,110010010100111
P = 111011111,11011110101,111010011011,1111101000010011
Q = 111010111,11001110111,1110110011011,11101000010111
R = 111101111,1101110111,111101001011,111100010001011
S = 111010111,110110011011,111100101001011,111001000110011
T = 111010111,110100111011,1111011001011,111010000100111
U = 111010111,1111000101011,11101010001011,1110010010000111
V = 110110111,11110011101,1110101000111,1110100001001011
W = 111010111,111100110011,111011010001011,1110010001001011
X = 110101111,111101100101,11101000110011,1110010100001011
Y = 111010111,111101000101,110110000110011,111000100100001011
Z = 111010111,111001010101,11110100001011,11100010010000111
a = 111010111,111001010101,1110100001011,111100010010000111
b = 1110101011,11011000100101,111100100100011,111100010000100011
c = 110111111,1111101101,1110100111011,1110111000111
d = 111010111,1110101100011,1101100011011,11100100010001011
f = 111010111,1110101000101,110110000101011,110100010000111
g = 111010111,11101001000111,1101010001010011,111100010000001011
h = 110111111,1111101011,111010110011,1110110011011
i = 111010111,1110001101011,11011010001011,111010000100001011
j = 110110111,1111010010011,11110010001000011,11100001000010000111
k = 111010111,1101110011,1110110011011,11110000101011
l = 111010111,1110100110011,11100100001001011,1110010001000010011
m = 111010111,11011110011,1110011011011,1111100101011
n = 111010111,11101010001011,1110100001010011,111001001000010011
p = 1101101011,1110001001011,11100011000001011,1110100100000100011
q = 1110101011,11110010010011,11100101000001011,111001000000100011
r = 1110101011,11100110010011,110110000101011,111100001000000011011
s = 1110101011,111001001001011,111001010000100011,111000100000001011
w = 110111011,1111001011,110101010011,111010010001011
x = 110110111,1101101001011,1110010001001011,1110010000010100011
y = 111010111,11010100001011,111100010001001011,11100010010000100011
z = 1101101011,111001001001011,111001000010001011,111001000000100010011
10 = 1110101011,11101001000101,111001000010001011,1110000010010000010011
12 = 1110101011,11101001000101,11101000000110011,110100100000100000111
14 = 110110111,11100110101,111010100101,111010010001011
15 = 111010111,111001010101,110101100001101,1110010010000001011
16 = 111010111,1011000111011,11101011000101,11100010011011
18 = 111010111,1110001010101,110101100001011,111010001001000011
19 = 111010111,1110111000101,1101010001010011,110100010010001011
1B = 111010111,111001010101,11010110000101,110110010001000011
1D = 111010111,11110101000101,110110000110011,11000110100001011
1E = 1110101011,11100001101001,111001010001011,11101000100001001011
1F = 111010111,1110101000101,110110000110011,1110100010000011
1G = 1110101011,110110001101001,111001010001011,11101000100010011
1H = 111010111,1110101000101,110110000110011,1011000100100001011
1I = 1101101011,1101010001011,11110001100101,11100100100010011
1J = 111010111,11110101000101,110110000110011,1101000100000111
1L = 1110101011,111010011000101,111001000001001011,110100101001000010011
1M = 1110101011,1101001110011,11010010001001011,11100100010001000011
1N = 1110101011,111001000110101,11100100100100011,1110001010001000011
1O = 1110101011,11101001100011,11100100010010011,1101000100000001011
1S = 1101101011,11100100001011,11100010010001001011,11100010000001000011
1V = 1101101011,111010001001011,11100100001001011,11100001000100001011
1X = 1110101011,1110100010001011,1101000100010000011,110100001001000010011
    
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\int_x^1 Hit Integration (n:4,w:9)

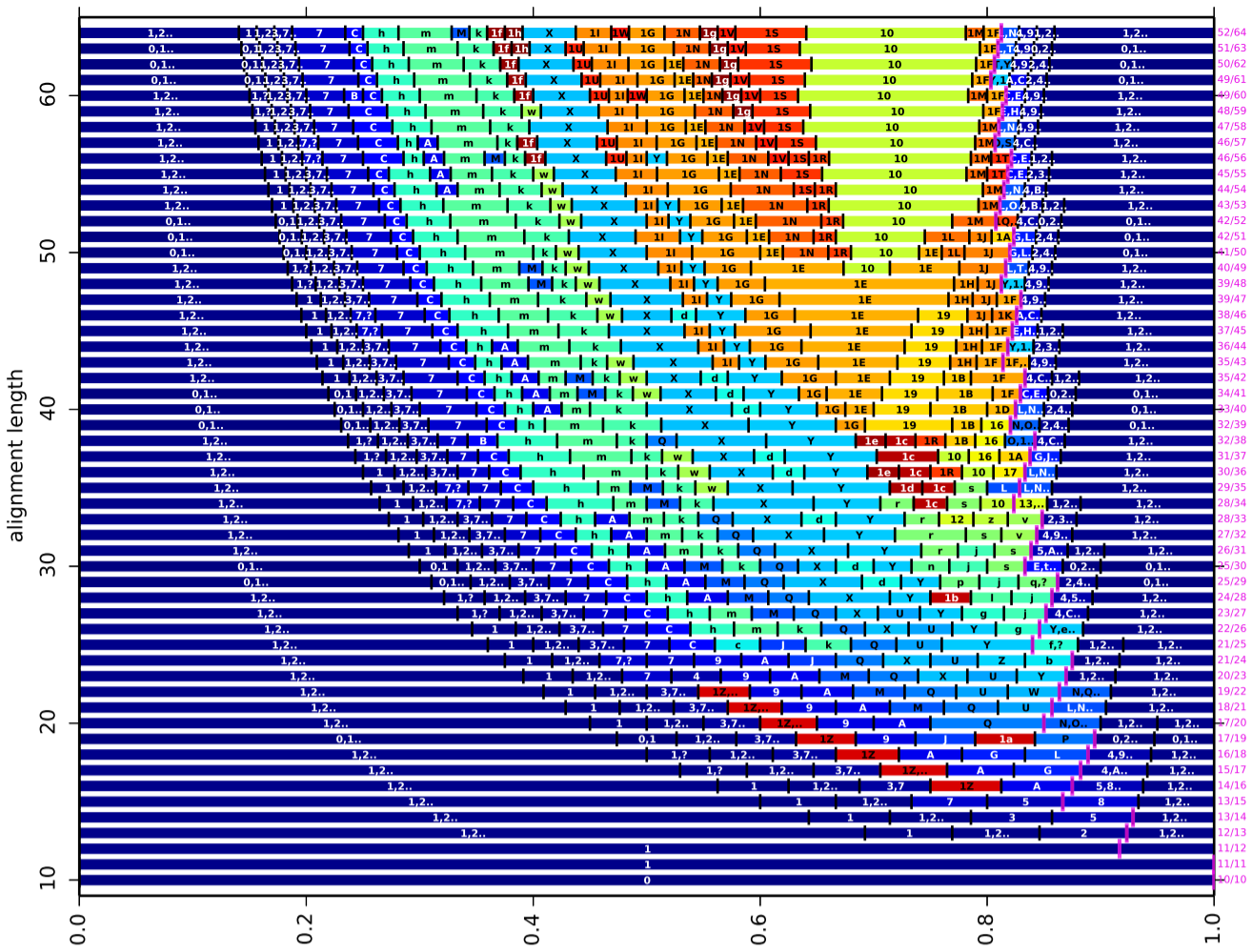


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0 = 111111111,101111111,111101111,111111011
1 = 111111111,110111111,111101111,111111011
2 = 111111111,110111011,111010111,111101101
5 = 110111111,111100111,111110101,111010100
8 = 111011111,111110101,110100111,111010100
9 = 110111111,111110101,111010011,111011100
A = 110111111,111100101,111001100,111010110
G = 111010111,110111001,111110010,111001001
J = 110111111,111100101,111001011,111010100
K = 111101111,111011011,111100010,111010001
L = 111010111,110100110,111101100,111101000
M = 101101111,111011001,111011010,111100001
N = 111011111,111011001,110100010,111101001
O = 111010111,111001110,111101000,111001001
P = 111011111,110111010,111010010,111101000
Q = 111010111,110011101,111010010,111010000
R = 111011111,110111011,111101001,111100010
S = 111010111,110100110,111100100,111001000
T = 111010111,110100110,111101100,111010000
U = 111010111,111100010,111010100,111100100
V = 110110111,111100110,111010000,111101000
W = 111010111,111100110,111010100,111100100
X = 110101111,111101100,111010001,111001000
Y = 111010111,111101000,111010000,111100010
Z = 111010111,111001010,111101000,111100010
a = 111010111,111001010,111010000,111110001
b = 111010111,110100010,111100100,111100000
e = 111010111,111010100,111010000,111100000
f = 111010111,111010100,110100001,110100010
g = 111010111,111010000,111101000,111100000
i = 111010111,111000110,110101000,111101000
j = 111010111,111101000,111100100,111100000
l = 111010111,111001100,111001000,111100100
n = 111010111,111010100,111010000,111100100
o = 111010111,111000110,110101000,111101000
p = 111010111,111000100,111000100,111010000
q = 111010111,111100100,111001000,111100100
r = 111010111,111001000,111010000,111100100
s = 111010111,111001000,111001000,111000100
x = 111010111,110101001,111001000,111100100
y = 111010111,110100000,111110001,111000100
z = 111010101,111001000,111100100,111100000
10 = 111010101,111001000,111001000,111010000
11 = 111011111,111101011,111001011,111010000
12 = 111010101,111010010,111010000,111010010
14 = 111010111,111100101,111010101,111010000
15 = 111010111,111001010,111010100,111001000
16 = 111010111,101100011,111010100,111000100
18 = 111010111,111000101,110101000,111010001
19 = 111010111,111010100,111010100,111010001
1B = 111010111,111001010,111010100,111010001
1D = 111010111,111010100,111010000,111000101
1E = 111010101,111010001,111001010,111010000
1F = 111010111,111010100,111010000,111010000
1G = 111010101,111010001,110010100,111101000
1H = 111010111,111010100,111010000,110100010
1J = 111010111,111010100,111010000,111010000
1L = 111010101,111010010,111001000,111010000
1M = 111010111,111001010,111010000,111001000
1N = 111010101,111001000,111010100,111001000
1O = 111010101,111001000,111001000,111000000
1S = 111010101,111001000,111000100,111001000
1X = 111010101,111000100,111000100,111000000

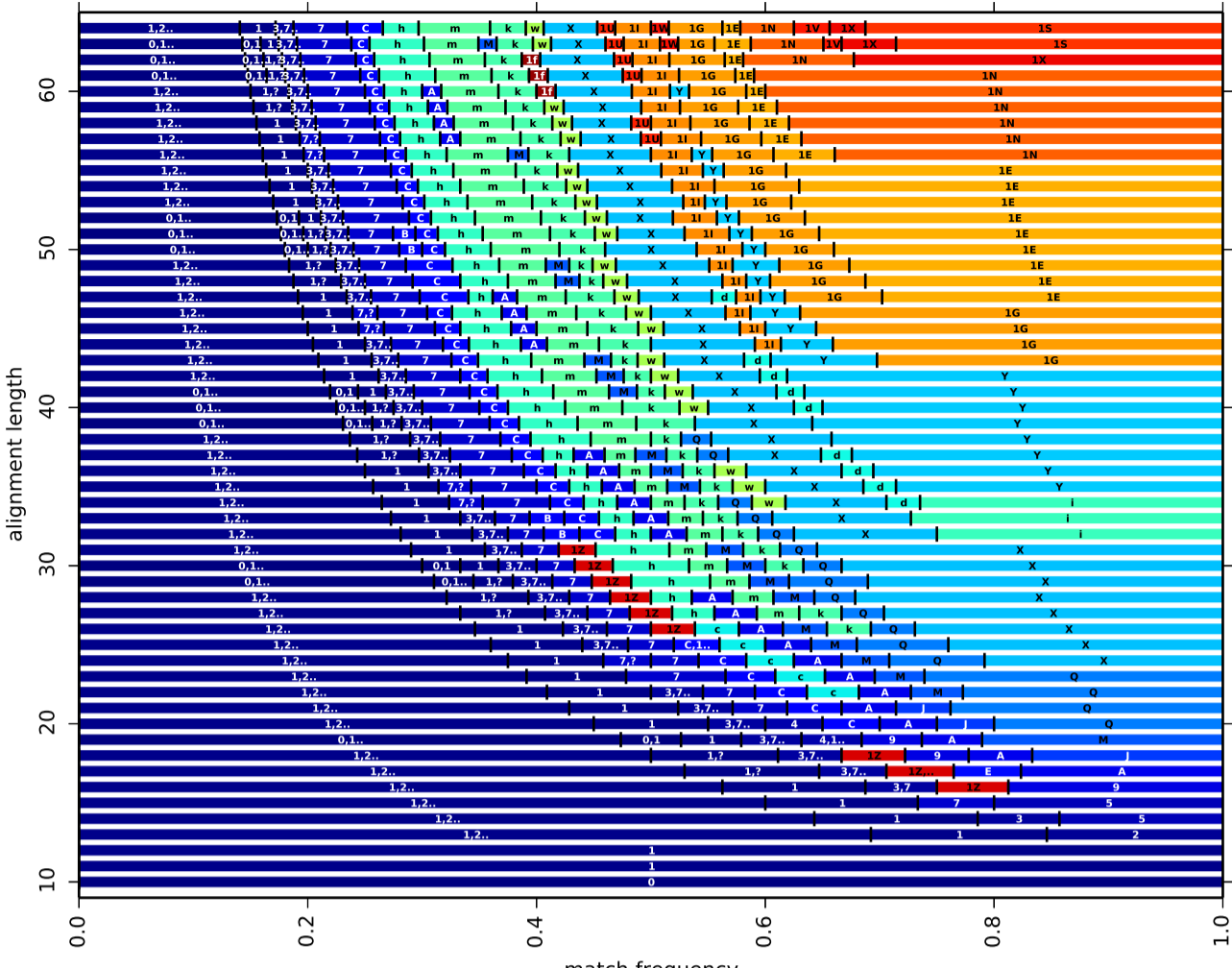
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Dirac (n:4,w:9)



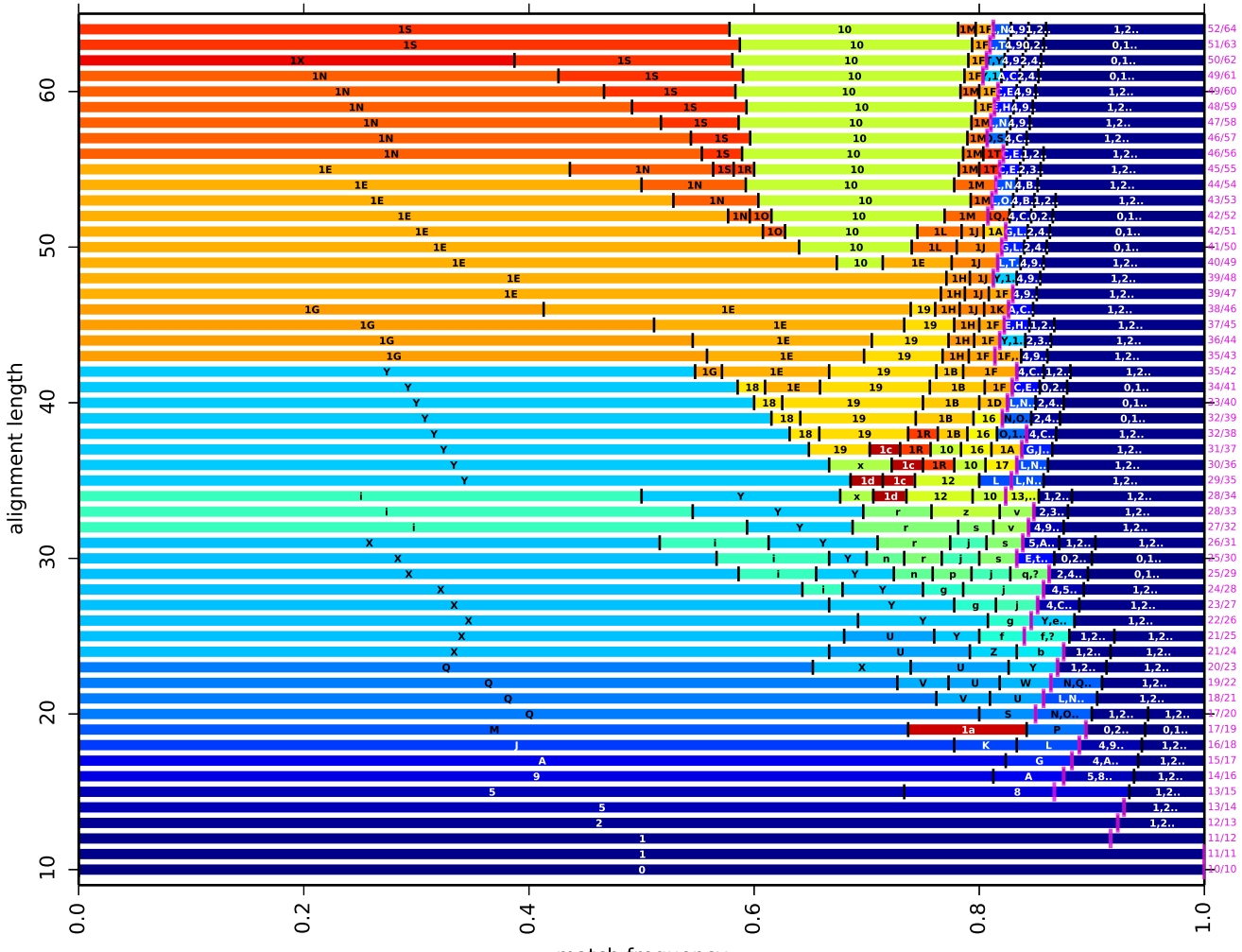
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1 = 111111111,110111111,111101111,111111011
2 = 111111111,110110111,111010111,111101011
3 = 101111111,111011011,111100111,111111011
4 = 111101111,111011011,111111011,110100111
5 = 110111111,111100111,111111011,11101010011
6 = 111111111,110111111,111110111,111101101
7 = 101111111,111010111,111101101,111110101
8 = 111011111,111111011,110100111,11101010011
9 = 110111111,111110101,111010011,11101100101
A = 110111111,111100101,11100110011,11101010101
B = 110111111,111101101,111110011,11101010111
C = 111011111,110111101,111111001,11101001011
D = 111101111,110111011,111111001,11101001011
E = 111011111,111111011,11011010011,11100011011
F = 111011111,111111011,11001100111,11101001011
G = 111010111,110111001,11111001011,111001001011
H = 111101111,110111011,111111001,11110100101
I = 111011111,111111011,11011010011,11110001011
J = 110111111,111100101,11100101011,111010100011
K = 111101111,110111011,11110100111,11101000101
L = 111010111,11010011011,11110100101,1110100010011
M = 111010111,111101001,11101101011,11110000101
N = 111101111,110111001,11011001011,11101001011
O = 111010111,11100110011,1111010001011,1100100100111
P = 110111111,1101110101,11101001011,11101000010011
Q = 111101011,1100111011,11101100101,1110100001011
R = 111101111,110111011,11110100101,1110001000101
S = 111011111,110100101,1111010100101,11100100010011
T = 111010111,11010011011,111101100101,11101000010011
U = 111010111,11100010101,1110101000101,1110010000011
V = 110110111,1111001101,11101010001,1110100001001
W = 111010111,1111001001,11101010001,111001000010011
X = 110101111,111101001,1110100010011,1110010000101
Y = 111010111,111101000101,1110100001001,111000100000101
Z = 111010111,11100101011,1111010000101,111000100000111
a = 111010111,11100101011,1110100001011,111100010000011
b = 111010101,11011000101,111100100100011,11110001000010011
c = 110111111,111101011,11101001101,11101100011
d = 111010111,11101010001,1101100001011,11100100010001011
e = 111010111,11101010001,1101100001011,11110000010001011
f = 111010111,11101010001,1101100001011,1110001000001011
g = 111010111,11101000101,110101000101011,111100010000001011
h = 110111111,111101011,11101010011,11101100101
i = 111010111,11100010101,1101101000101,111010000100001011
j = 110110111,11110100101,11110010001000011,11100001000010000111
k = 111010111,110111001,11101001011,1111000010101
l = 111010111,11101001001,11100100001001011,111001000000010011
m = 111010111,110111001,11100101011,11110010101
n = 111010111,111010100101,111010000101011,111001001000010011
o = 111010101,111000101001,110110100001011,111010000000100111
p = 110101011,111000100101,111000100000101,1110100100000010011
q = 111010111,111001001001,1110010100000101,1110010000000100111
r = 111010101,111001001001,11011000010101,1111000010000001011
s = 111010111,111001001001,1110010100001001,11100010010000001011
t = 111010101,1110100010101,111001000100101,11100001000001000111
u = 111010101,1110010010101,111010010000101,111010000001000010011
v = 110101111,1111100101,11100101011,111010001000101
w = 110111101,111100101,11010101001,111010010001011
x = 110101011,1101100101,1110010001001,11100100001000011
y = 111010111,1101000000101,111100010001001,111000100000100011
z = 110101011,11100100101,11100100001001,111001000001000100011
10 = 111010101,111010010001,1110010000100101,1110000010010000001011
11 = 111011111,1110110101,11101001011,1110101000100101
12 = 111010101,111001000101,111010000001001,11101000001000000111
13 = 111010111,1101001101,11101100101,1111010000001011
14 = 110101111,1110010101,11101000101,111010010001011
15 = 111010111,1110010101,110101000101,11100101000001011
16 = 111010111,1110001101,1110101000101,1110001001001011
17 = 111101111,11101100101,1110100101,111010010000111
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19 = 111010111,111010100101,110100001001,1110000100100001011
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1B = 111010111,1110010101,1101010000101,11101000010000011
1C = 111010111,11100100101,11100100101,11100100010101
1D = 111010111,11101010001,1101100001001,11100010100001011
1E = 111010101,1101100010101,111001010000101,1110100010000100101
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1J = 111010111,11101010001,1101100001001,1110100010010000011
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1f = 111010101,111100101,11100101001,1110010000111
1g = 111010101,11101000101,1110010000101,1110000100001000101
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$$\sum_0^{\infty} \text{Heaviside}(n;4,w;9)$$



0 = 11111111,10111111,11101111,1111110111
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3 = 10111111,1101110111,1111001111,1111110101
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8 = 11101111,1111110101,1101001111,11101010011
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A = 11011111,1111100101,111001110011,11101010101
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C = 11101111,1101111011,1111100111,1110100101
D = 11101111,1101110111,1111110011,1110100101
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F = 11101111,1111110101,11100110011,1110100101
G = 11101011,1101110011,1111100101,11100100101
H = 11101111,1101110111,1111110011,1110100101
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J = 11011111,1111100101,1110010111,11101010001
K = 11101111,1101110111,1111010011,11101000101
L = 11101011,1101001101,1111010010,11101000101
M = 10111011,1111010011,1110101011,11100001101
N = 11101111,1110110011,11011000101,11101001001
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P = 11101111,1101110101,1110100101,1111010000101
Q = 11101011,1100111011,1110100101,111010000101
R = 11101111,1101110111,1111010011,11100010001
S = 11101011,1101100101,11110010101,111001000101
T = 11101011,1101001101,1111011001,111010000101
U = 11101011,1111000101,11101000101,111001000001
V = 11011101,1111001101,1110100011,111010000101
W = 11101011,1110011001,1110110001,1110010000101
X = 11010111,111101001,11101000101,1110010000101
Y = 11101011,1111010001,110110000101,11100010000101
Z = 11101011,1110010101,1111010001,111000100001
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d = 11101011,11101010001,11011000101,111001000101
e = 11101011,11101010001,11011000101,111100000101
f = 11101011,11101010001,11011000101,111000100001
g = 11101011,1110100001,11011000101,11110001000001
h = 11011111,11110101,1110101001,1110100101
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m = 11101011,1101110011,1110010101,1111100101
n = 11101011,11101000101,11101000101,111001000001
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q = 11101011,111001001001,111001000001,111001000001
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s = 11101011,11100100101,11100100001,11100010000001
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v = 11101111,11110101,1110010101,11101000101
w = 11101111,11100101,1110101001,11101000101
x = 11101011,1101101001,11100100101,111001000010001
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11 = 11101111,11101101,11101001,1110101000101
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13 = 11101011,1101001101,1110100101,1110100000101
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15 = 11101011,1110010101,1101100001,11100100000101
16 = 11101011,10110001101,11101010001,111001000101
17 = 11101111,111011001,1110100101,111010010001
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1g = 11101011,1110000101,111001000101,11100001000101
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$$\sum_x \text{Heaviside}(n;4,w;9)$$



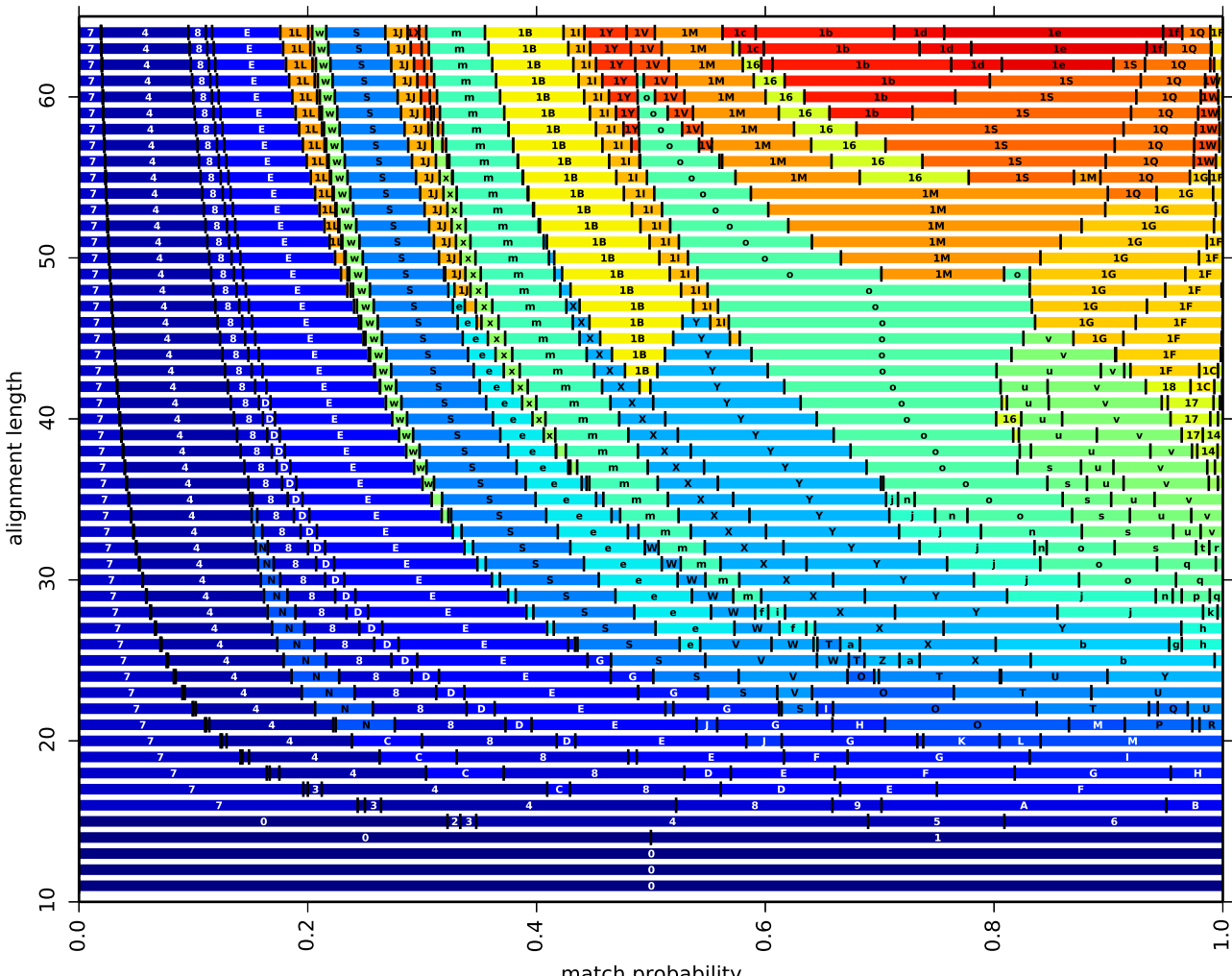
match frequency

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A = 11011111,11110010,11100110,11101010
B = 11011111,11101101,11111001,11101010
C = 11101111,11011101,11111001,11101001
D = 11101111,11011101,11111001,11101001
E = 11101111,11111010,11101001,11100011
F = 11101111,11111010,11100100,11110100
G = 11101011,11011100,11111001,11100101
H = 11101111,11011011,11111001,11110100
I = 11011111,11111010,11101001,11110001
J = 11011111,11110010,11100101,11101000
K = 11101111,11011011,11101001,11101000
L = 11101011,11010011,11110100,11101000
M = 10110111,11101001,11101010,11110001
N = 11101111,11011001,11010001,11101001
O = 11101011,11100110,11110100,11100100
P = 11101111,11011101,11101001,11101000
Q = 11101011,11001110,11101001,11101000
R = 11101111,11011011,11101001,11100010
S = 11101011,11010010,11111001,11100100
T = 11101011,11010011,11110100,11101000
U = 11101011,11100010,11101001,11100100
V = 11011011,11100110,11101000,11101000
W = 11101011,11100100,11101000,11100100
X = 11010111,11101001,11100010,11100100
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Z = 11101011,11100101,11101000,11100010
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c = 11011111,11110101,11100110,11101100
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p = 11101011,11100010,11100010,11101000
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s = 11101011,11100100,11100100,11100001
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17 = 11101011,11101100,11101001,11101000
18 = 11101011,11100010,11101010,11101000
19 = 11101011,11101000,11101010,11101000
1A = 11101011,11101100,11101001,11101000
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1E = 11101011,11100010,11100101,11100010
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1U = 11101011,11001100,11110000,11100100
1V = 11101011,11100010,11100010,11100001
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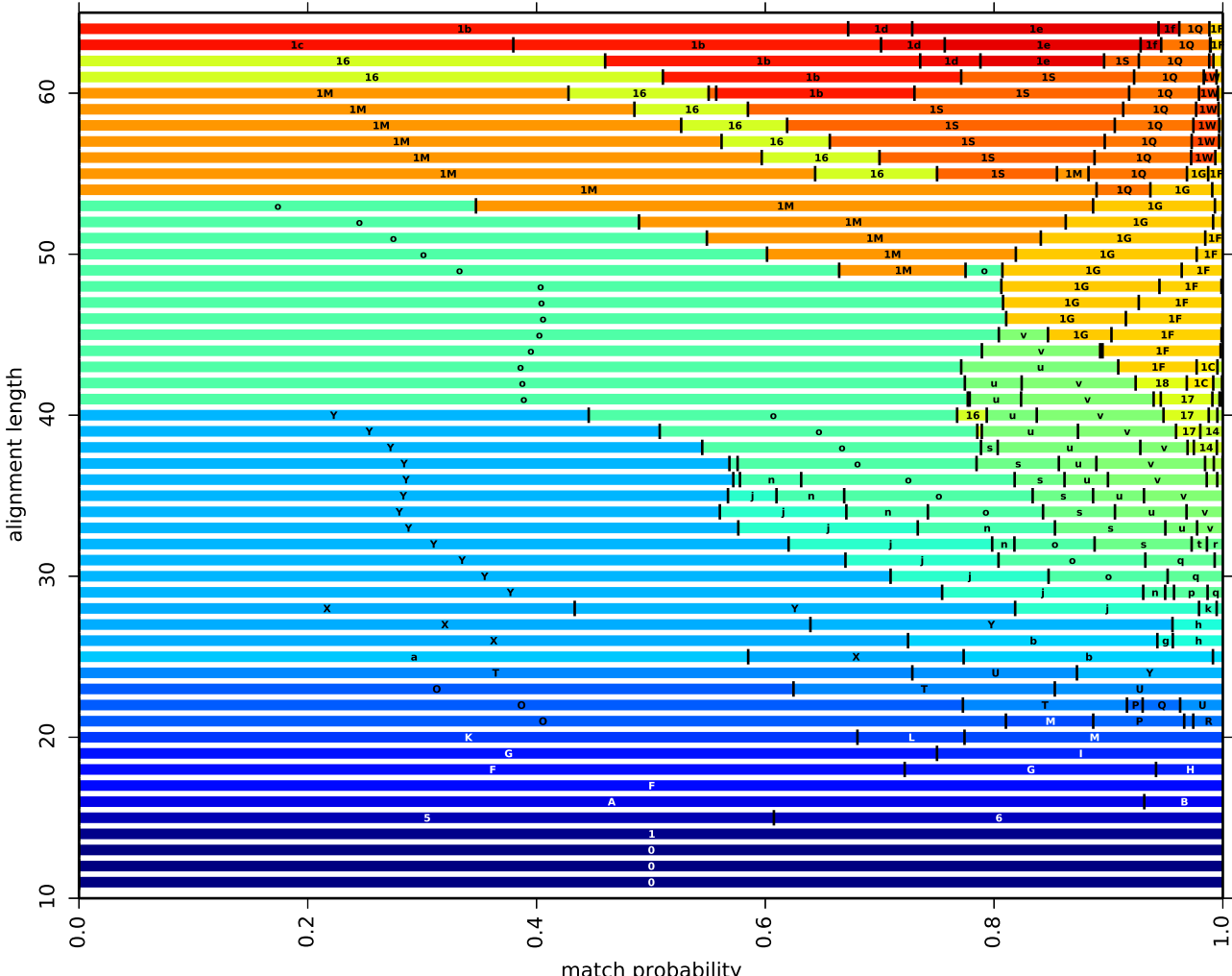
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Bernoulli (n:4,w:10)



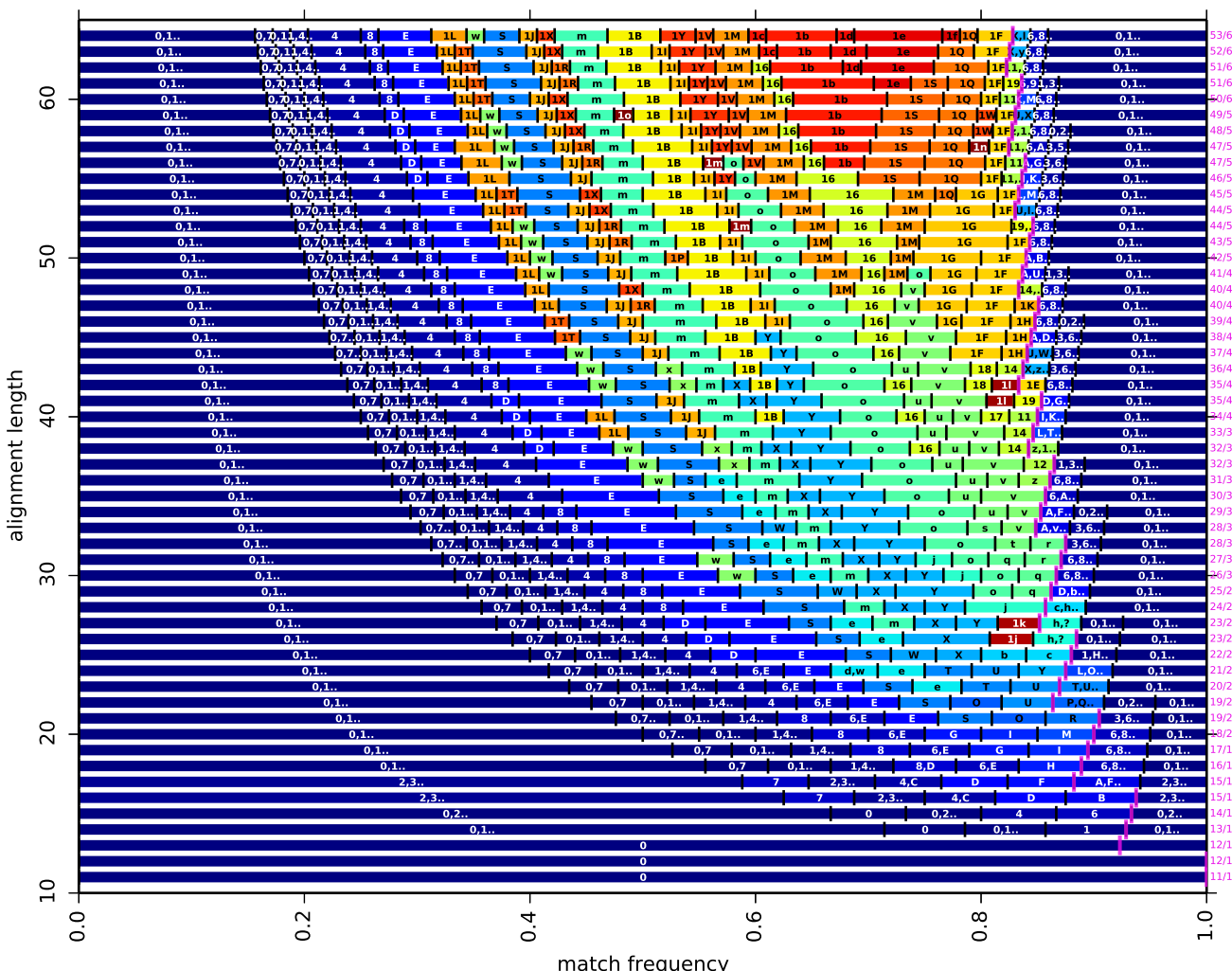
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 w = 1101011111,11111001101,11011101101011,11110010100111
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 1B = 11101101011,110101100010111,111010001110011,111000100100101011
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\int_x^1 Hit Integration (n:4,w:10)



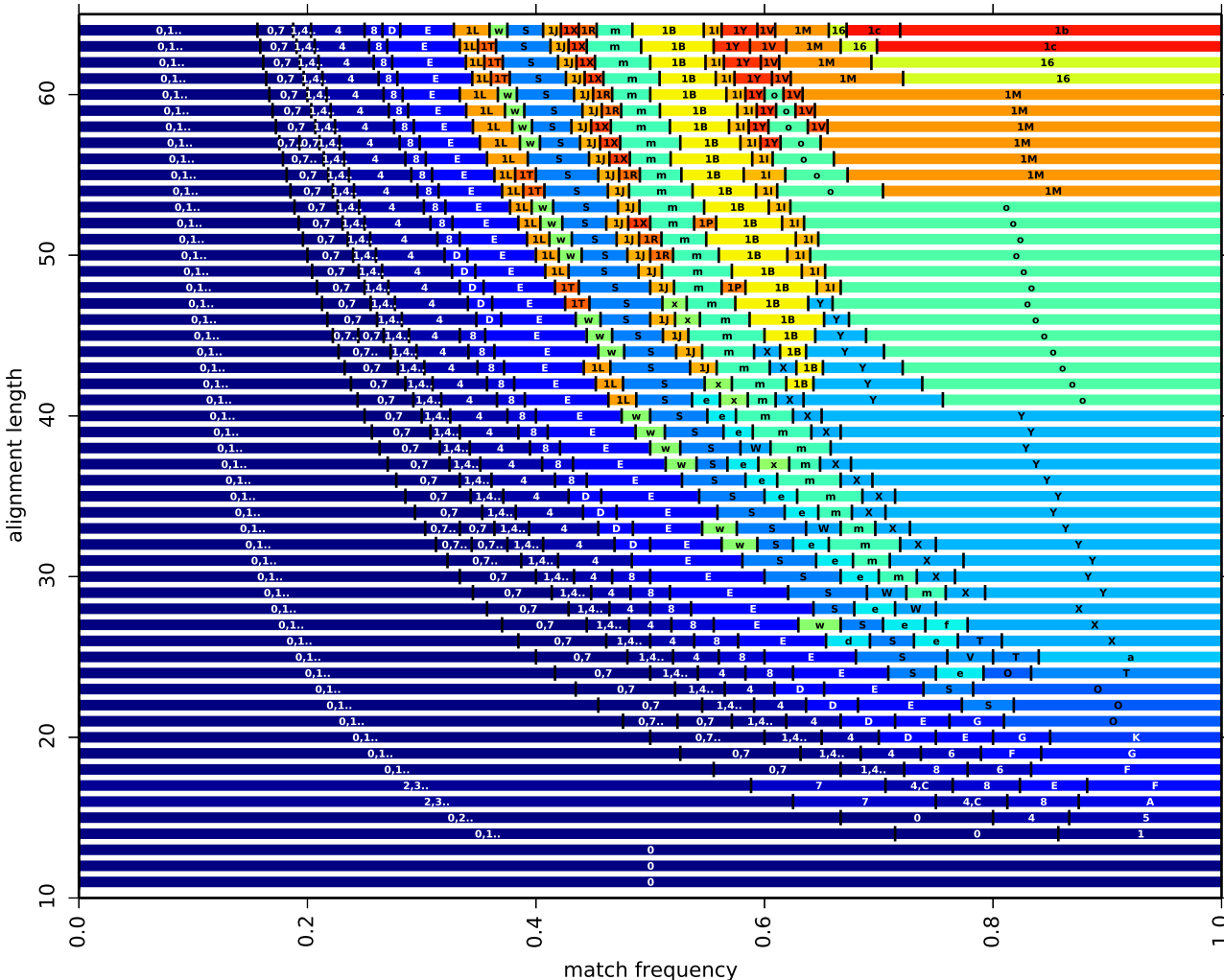
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- U = 11110110111,111010011011,111101010001011,111011000010010111
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- b = 1110110111,11110100101011,1110100110000111,1111000100010010111
- g = 1110110111,1110100101011,1110100110000111,11110000100010010111
- h = 1111011111,1110110011011,111100101001011,11110001000001001111
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- k = 1110110111,11100110101011,1111010001001011,111010001000010001111
- n = 1110110111,1110100101011,11110010010001011,1110100010000100001111
- o = 1110110111,111011100010011,11101000101001101,11101010000100011111
- p = 1110110111,11100010101011,1110110000011011,111101000000001001111
- q = 1110110111,1110110010001011,1110010000110010011,11110000010000100010111
- r = 111010010111,111001101010011,11110001000001001011,1110100001000001000010111
- s = 1110110111,1110100110001011,111011000001001011,111010001000010000010111
- t = 1110100110111,1110011010100011,11110001000001001011,11101000010000001000010111
- u = 1110110111,1110100110001011,111010000010010001011,1110100001000001000010111
- v = 1110110111,1110100110001011,111010000010010001011,111010000100001000010001011
- 14 = 1101110111,111100111011,111101001001011,1110010001001011,11100100010010111
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- 18 = 1110110111,1110100101011,1110100011001011,11100010010010010111
- 1C = 11101110111,1110100101011,1110100011001011,1110010010010010111
- 1F = 11101110111,1111010010001011,11010001100101001011,111010100010010010111
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- 1S = 1110110111,11101000101001011,11101001000000110011,1110100001000100001001011
- 1W = 1110110111,1110100110001011,11100101000100100011,11100100001000010010111
- 1b = 111001101011,111010010001011,11010011001000010011,1110100001000001000010111
- 1c = 110101100111,111100101010001,11001010001100001011,11100100010000100010111
- 1d = 1110100101011,111010001010001011,1101001000010010001011,11101000100000100001000111
- 1e = 1110100101011,1110110100010001011,11010001000010010001011,111000001010000100001000111
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Dirac (n:4,w:10)



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2 = 1111111111,1101111111,1111110111,1111101011
3 = 1111111111,1101101111,1111011011,1111101011
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6 = 1110111111,1101111001,1111100101,1110010111
7 = 1111111111,1101111111,1111011111,1111110111
8 = 1111011111,1101101111,1111110101,1111010011
9 = 1111011111,1111110101,1100110111,1111010100
A = 1111011111,1111110101,1101100111,1111010100
B = 1110111111,1111100101,1110011011,1110110100
C = 1101111111,1110110111,1111001111,1111110101
D = 1110111111,1101111011,1111100101,1110101001
E = 1110111111,1101111001,1111100101,1111001011
F = 1110111111,1111101011,1110011011,1110110011
G = 1101111111,1111101011,1111001101,1110111001
H = 1110111111,1111101011,1110110001,1111000101
I = 1101110111,1111001101,1110001011,1110110001
J = 1110111111,1111101011,1110010101,1111011001
K = 1111011111,1110111011,1110011011,1111010001
L = 1111011111,1110111011,1110001011,1111001001
M = 1011101111,1111010111,1110010011,1110110100
N = 1101111111,1111011011,1111010111,1111101011
O = 1111011111,1110111011,1111000101,1110100100
P = 1101110111,1110110011,1111001011,1111010001
Q = 1011110111,1110010101,1110110001,1111001000
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S = 1101111011,1111001111,1110011011,1110001011
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b = 1110110111,1111001011,1110011000,1111100010
c = 1110110111,1110110001,1111000011,1111001000
d = 1110110111,1111101001,1101100111,1111000101
e = 1110111011,1111000111,1110011011,1111001001
f = 1101110111,1111010101,1110110011,1111001001
g = 1110110111,1110100101,1110100100,1111100001
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i = 1110101111,1110011011,1110100011,1111000100
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n = 1110110111,1110010101,1111001000,1110100010
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z = 1110101111,1101001101,1111011001,1101001000
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16 = 1110101011,1110100010,1110001000,1111001000
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1C = 1110110111,1110100101,1110000100,1111001001
1D = 1110110111,1111010100,1110100010,1110100100
1E = 1110101111,1111011001,1110010011,1110100000
1F = 1110110111,1111010001,1110001001,1110100010
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1J = 1110101111,1111010101,1101010001,1111000101
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1N = 1110101111,1101110101,1110110010,1111010010
1O = 1110101011,1110010100,1111010000,1110100010
1P = 1110110111,1110100101,1111000101,1110100100
1Q = 1110101011,1110100100,1111001000,1110001000
1R = 1110110111,1101100100,1111000101,1110010100
1S = 1110101011,1110001001,1110100100,1111010001
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1U = 1110101011,1110001010,1110100000,1111010001
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1W = 1110101011,1110010001,1110010000,1111000001
1X = 1110110111,1111000101,1110010011,1110101000
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1b = 1110010101,1110001000,1110010000,1111010001
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1l = 1110101111,1101001101,1111010001,1111001000
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$$\sum_0^x \text{Heaviside}(n:4,w:10)$$

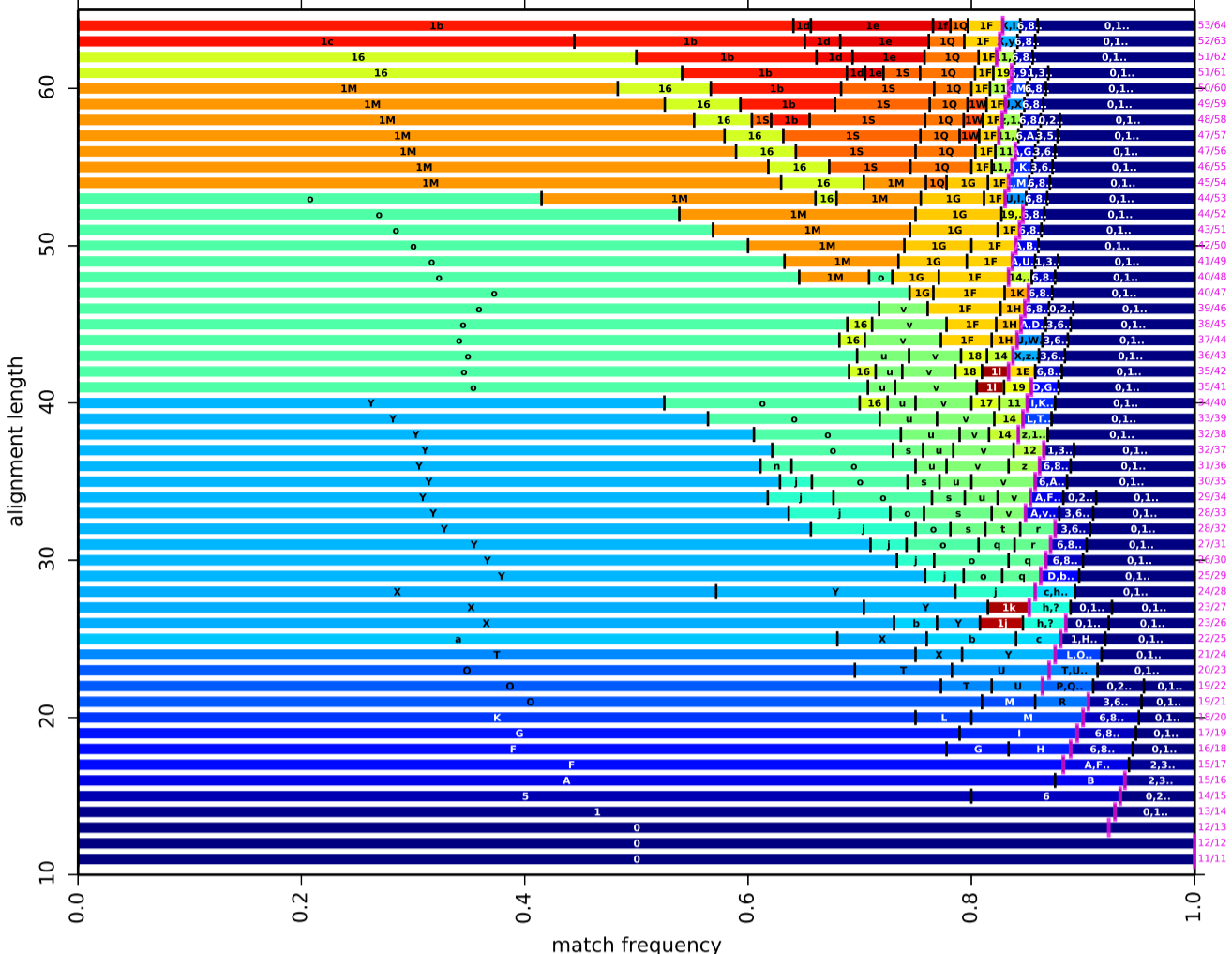


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B = 1101011111,1111100101,1100110101,1110110110
C = 1101111111,1110111011,1111001111,1111110101
D = 1110111111,1101111011,1111100101,1110101010
E = 1110111111,1101111001,1111110011,1111001011
F = 1110111111,1111101011,1110100101,1111011001
G = 1110111111,1111010111,1111001010,1110111001
H = 1110111111,1111101011,1110110100,1111100010
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J = 1110111111,1111101011,1110010101,1111011001
K = 1111011111,1110111011,1110100101,1111010001
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R = 1110101111,1101100110,1111001001,1111010000
S = 1101111011,1110100111,1110011010,1110100010
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U = 1111010111,1110100110,1111010100,1111010000
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d = 1111101111,1111101001,1101101001,1111000110
e = 1110111011,1110100111,1110011010,1111001001
f = 1101111011,1111010110,1110110010,1111001000
g = 1110110111,1110100101,1110100100,1111100001
h = 1111011111,1110110010,1111001001,1111000100
i = 1110110111,1110011010,1110101000,1111100010
j = 1110110111,1110100101,1111010010,1111010000
k = 1111010111,1110011010,1111010001,1110100010
l = 1110111011,1110010100,1111010000,1111010000
m = 1101110111,1110110010,1111000101,1110010010
n = 1111101111,1110100101,1111001000,1111010000
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q = 1110110111,1110110000,1111001000,1111100000
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u = 1110101011,1110100100,1111010000,1111010000
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y = 1110110111,1110010000,1110100100,1111010000
z = 1110111111,1110001101,1111011001,1101010010
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18 = 1110110111,1111010010,1110100010,1110001001
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1C = 1111101111,1110100101,1110100010,1111001001
1D = 1110110111,1110110100,1110100001,1110100100
1E = 1110110111,1111101100,1110100101,1110110000
1F = 1110110111,1110100100,1110100010,1110100010
1G = 1110110111,1110110010,1110100010,1110100010
1H = 1110110111,1110111000,1110100010,1110100000
1I = 1110110111,1110001010,1110101000,1111100010
1J = 1110110111,1111101010,1110110000,1111110001
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1M = 1110110111,1110110010,1110100010,1111010000
1N = 1110111111,1101110101,1110110011,1111010010
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1T = 1110111111,1111110011,1100101110,1111001101
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1m = 1110110101,1110010100,1111011000,1111000010
1n = 1110110111,1110100100,1110010000,1111001000
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$$\sum_x \text{Heaviside}(n;4,w:10)$$



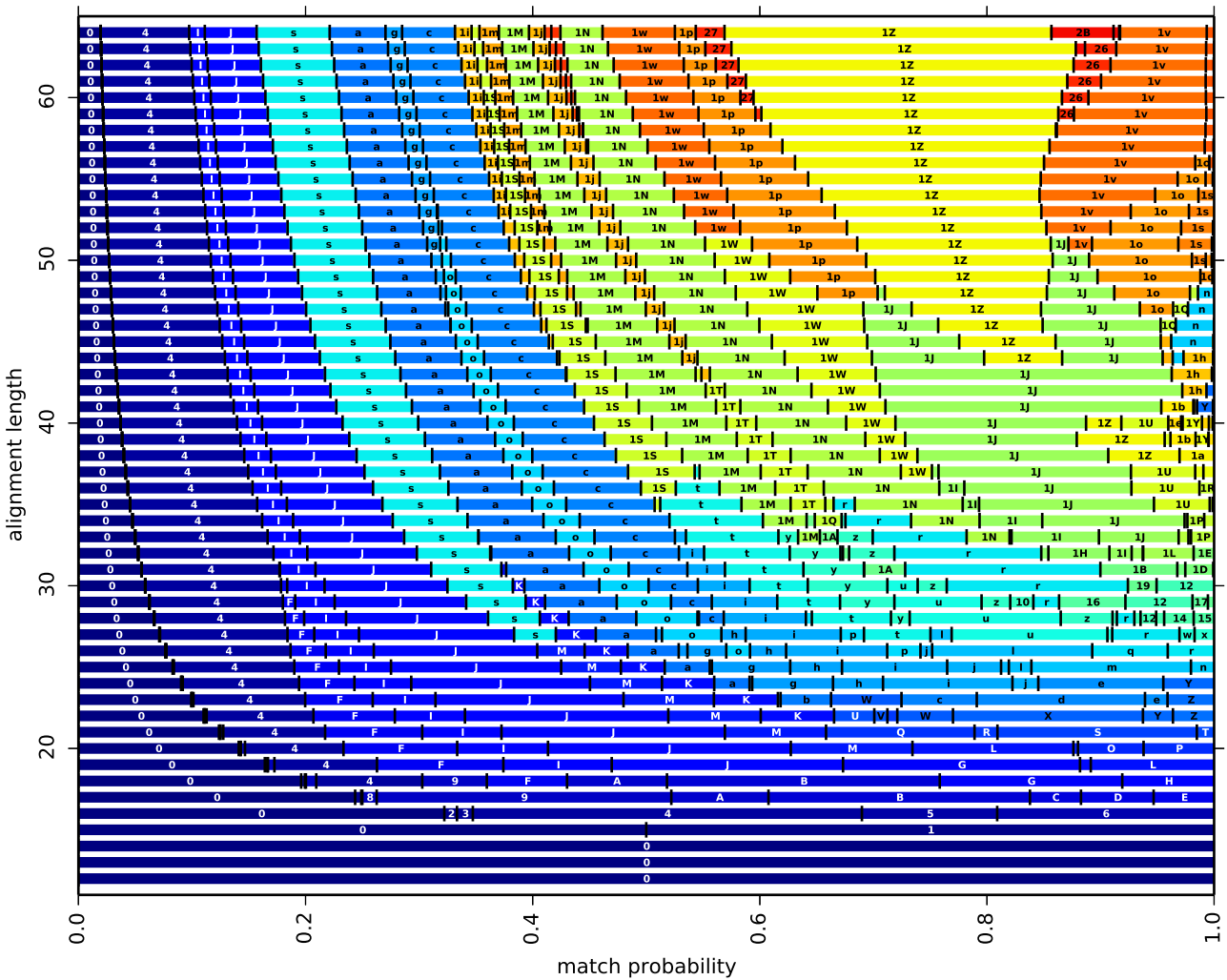
match frequency

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B = 1101011111,1111100101,1110011010,1110110110
C = 1101111111,1111011011,1111100111,1111110101
D = 1101111111,1101111011,1111100101,1110101101
E = 1101111111,1101111001,1111100101,1111001011
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G = 1101111111,1111010111,1111001101,1110111001
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i = 1110101111,1110011010,1110101000,1111000010
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n = 1110110111,1110100101,1111001000,1111010000
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1f = 1110101001,1101100010,1110100001,1110100001
1g = 1111011111,1101011111,1111110101,1111001100
1h = 1110110101,1110100101,1101011000,1111000010
1i = 1110110101,1111010001,1110101000,1111001000
1j = 1110110101,1111010001,1110011000,1111000100
1k = 1110110101,1111010010,1110100100,1111100010
1l = 1110110101,1110011010,1111010100,1111001000
1m = 1110101011,1110101000,1111101000,1111010000
1n = 1110101011,1110100100,1111001000,1111001000
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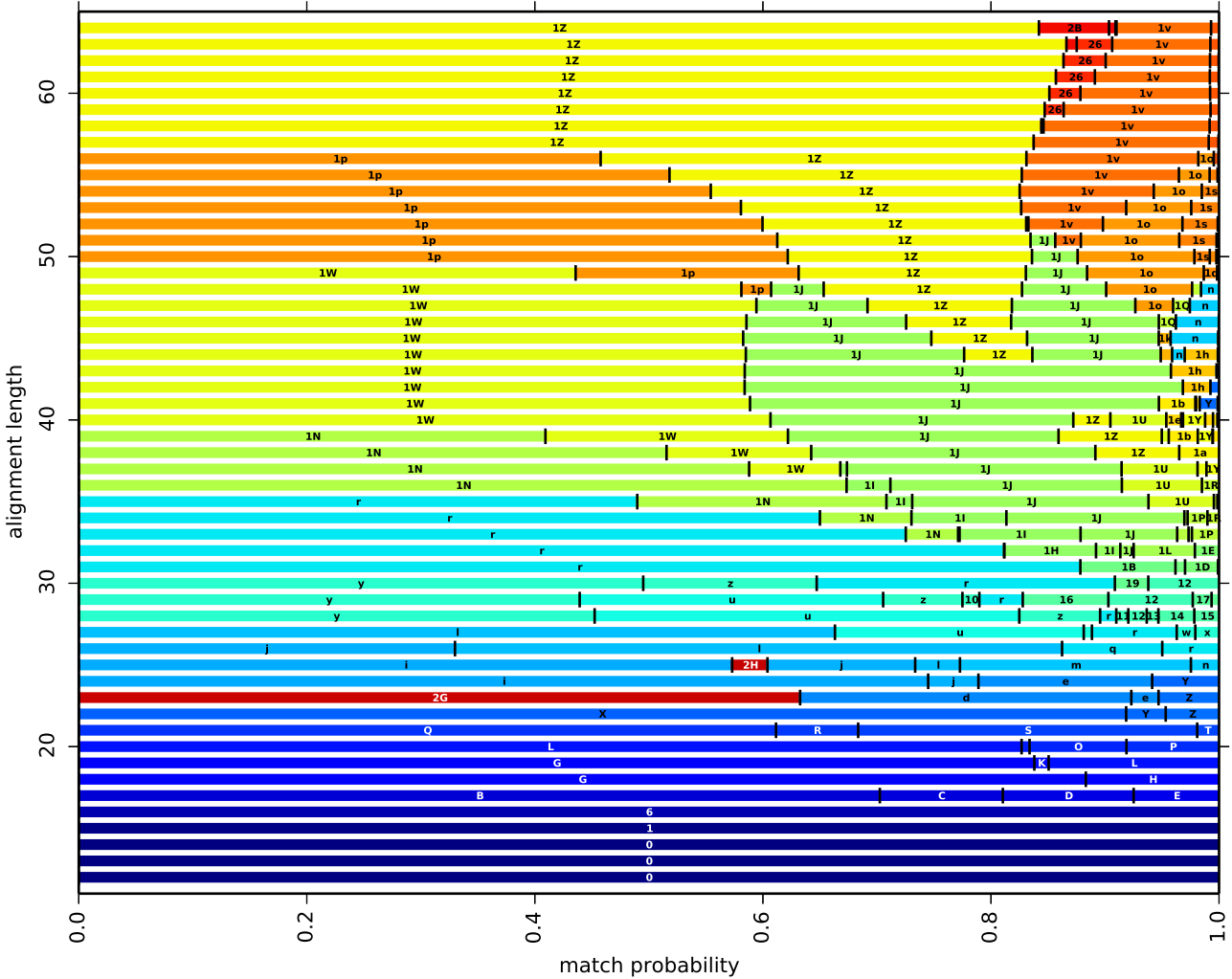
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Bernoulli (n:4,w:11)



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3 = 1111111111,1101110111,1110101111,11111011011
4 = 1111011111,1101111101,1110110111,11111110101
5 = 1101111111,1111001111,11111110101,1111010100111
6 = 1110111111,1101111101,11111100101,1110011010111
8 = 1111111111,1101011111,1111011101,11111010111
9 = 1111011111,1101011111,1110110111,11111110101
A = 1110111111,1101101111,11111110101,1111010010111
B = 1110111111,1101111101,11111100101,11110011010111
C = 1110111111,1101111100,1111110101,1111010010111
D = 1110111111,1101111010,11111100101,1111010010111
E = 1110111111,1111110101,1101001101,111101001100111
F = 1101111111,1111011011,1111011101,11111001111
G = 1110111111,1111101011,1101001101,11110110011011
H = 1101111111,1111110101,1111001101,1110011010111
I = 1110111111,1101111011,1111110101,1111010010111
J = 1110111111,1111101101,1101111001,1111100010111
K = 1101111111,1111001011,111101011001,1110011001011
L = 1110111111,1111101101,111100110001,11110100011011
M = 1110111111,1111101101,1101111001,1111010010111
O = 1101110111,1111011100,11110101110100,11110010010111
P = 1101110111,1111011000,11110010010111,111010011010011
Q = 1111011111,1101111011,111101001011,11110100011011
R = 1111011111,1110111001,111010110101,111011000101011
S = 1110111111,1110111010,111101001101,1111001001001011
T = 1110111111,1101110101,111101001101,11110100100010111
U = 1110111111,1111101101,11110010001111,11110101100011
V = 1101111101,1111001011,1111011100101,111010100010111
W = 1111011111,1110111010,11101100010111,111101010001011
X = 1101110111,1111011101,11101100001011,111000101100111
Y = 1110110111,1110001101,11110101000101,1111010000101001011
Z = 1110111111,111011100011,11110100110101,111101000000100111
a = 1101111011,1111010110,111011001011,111100101011011
b = 1110111011,1111010110,110100101111,1111011000100111
c = 1110101111,1111011100,11101000100111,111100010111011
d = 1101110111,1111010110,11101100100111,11101100000101011
e = 1110110111,1110001101,11110101000101,111100010001001011
g = 1111101111,1111011101,11101100100111,111100001011011
h = 1110111011,1111010110,11101100100111,1110100101001011
i = 1110101111,1110101110,111011000101,1110110010001011
j = 1110101111,111011000101,11110001101011,11110100100010111
k = 1110101111,111011000101,11110001101011,111101000100010111
l = 1110101111,111000110101,11110101000101,111101001001000111
m = 1110110111,111100011011,11100110100101,111100100001001011
n = 1110110111,11011000101101,11101001100101,1110101001000100111
o = 1101111011,11110101101,11101100100111,111100010101011
p = 1101110111,111100010101,1110101100101,11101100000101011
q = 1110101111,111100110101,11110101000101,11110010010000010111
r = 1110110111,11011000101101,11101001100101,11110100001000010111
s = 1110101111,111011110101,111100110101,1110110100111
t = 1110101111,111011000101,1111000110101,1111001001000010111
u = 1110101111,11011000101101,11101001100101,111101010000100111
v = 1110101011,111100010101,11100011010011,111101000100000100111
w = 1110101011,111100010101,11100011010011,111101000100000100111
x = 1110101011,1111000100101,11100011010011,111101000100000100111
y = 1110101011,1111000110101,1111010010011,11110010000010111
z = 1110101011,111100010101,11101001101001,111100010001010111
10 = 1110101011,11110001000101,11101010000101,111100010000100111
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16 = 1110101011,11101001100101,11101000010101,11110100001000010111
17 = 1110101011,1110010100101,1110100100100101,11110010001000100111
19 = 1110101011,1110100100101,11101000010101,111101000001000100111
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1B = 1110101011,11101001010011,111011000100101,1111000010000010111
1D = 1110101011,111001100010101,111101000100100101,111010001000100100111
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1H = 1110101011,111010100001011,11110100010100011,111000100100000100111
1I = 1110101011,111101010001011,1111001001000010101,11100100000000100111
1J = 1110101011,111101010001011,1111001001000010101,111100100000010000111
1L = 1110101011,111011001010001,11101100000010101,1111000101000000010111
1M = 1110110111,11011000101101,111001011010011,1111010010001001011
1N = 1110101011,111000110010101,111101000100101,1111001000010000111
1P = 1110101011,111101001010001,111010100010001001,1111001000001000100111
1Q = 1110101011,11011001001011,111010011001011,111100100001001011
1R = 1110101011,111100110001001,111100100001000011,11110000010000100010111
1S = 1110101011,11011100010101,11110001101011,111100100100010111
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1U = 1110101011,111100010010101,111010010010001001,11110001000001000100111
1W = 1110101011,11101000101011,11101001101000101,11110100100001000111
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1Z = 111010101011,111010100010101,111100100001000101,1111001000010000010111
1a = 1110101011,1111001000100011,11100100010001010101,11110001000001000010111
1b = 111010100111,111010010010011,1110101001000101001,1111001001000001000010111
1e = 1110101011,111100010010101,1110100100100001001,1111000010000010001000111
1h = 1110101011,111011000101101,111010011001011,111010010010100111
1i = 1110101011,11101100010101,11110001101011,111010100100100111
1j = 1110101011,11101010010101,1111001100010101,11110100000100100111
1m = 1110110111,110111000101101,111101001010011,111010011001001011
1o = 1110101011,11101010011001,1110100110000100101,111001100001010001011
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1w = 111010101011,111000101001101,11101010000100101,1111001000101000010111
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27 = 111010101011,1111000100010101,111001001001000101,1110100010000010001111
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\int_x^1 Hit Integration (n:4,w:11)

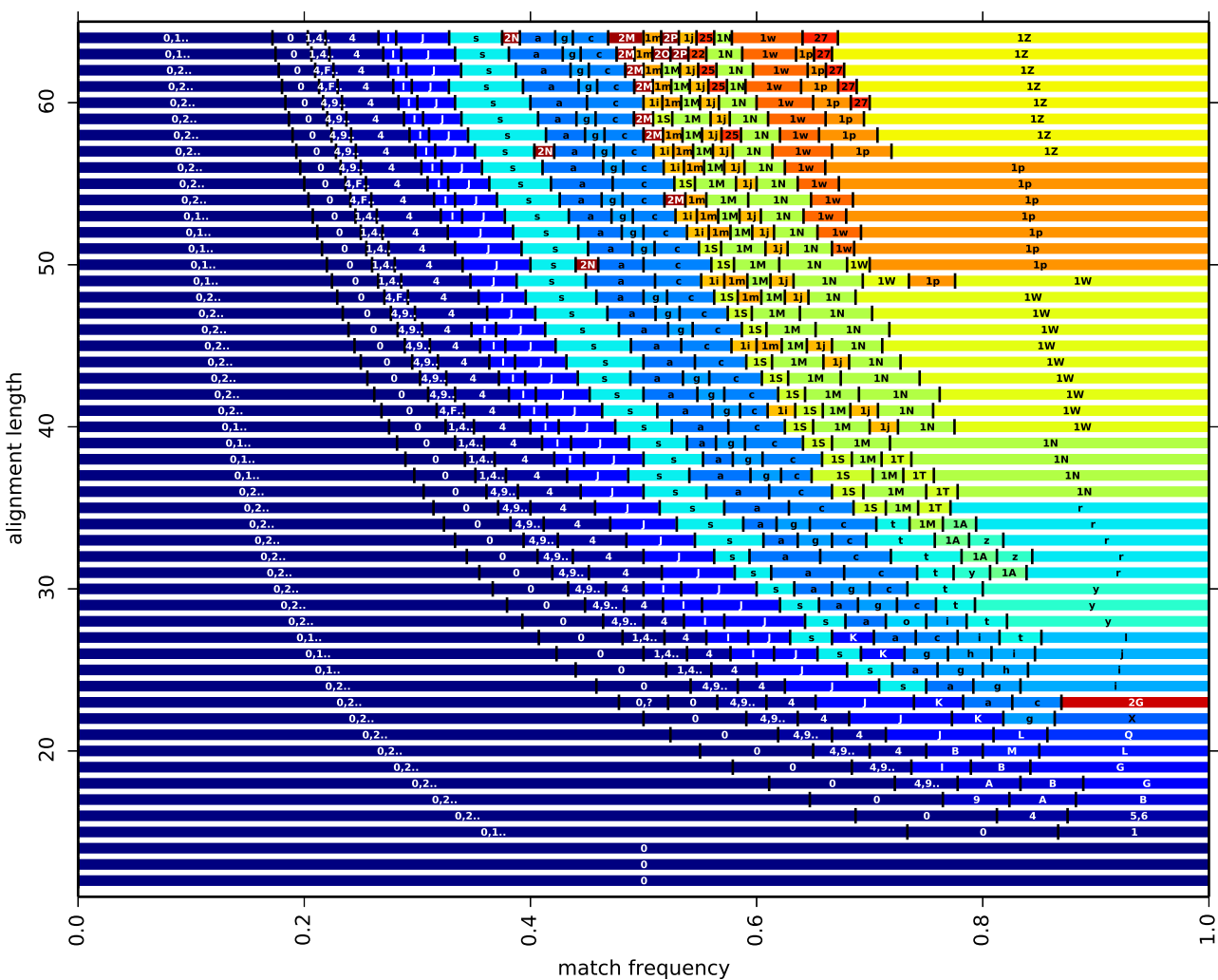


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C = 1110111111,1101111101,1111110101,1110100111
D = 1110111111,1101111101,1111110101,1110100111
E = 1110111111,1111110101,1101001101,1111010011
G = 1110111111,1111110101,1101001110,1111011001
H = 1101111111,1111110100,1111100111,1110011011
K = 1101111111,1111001011,1111010111,1110011001
L = 1110111111,1111110101,1110011100,1111101001
O = 1101111011,1111011100,1110101111,1110010011
P = 1101111011,1111011100,1111001001,1110100110
Q = 1111011111,1110111101,1111011001,1111010001
R = 1111011111,1110111001,1110101101,1110100011
S = 1111011111,1110111011,1111010011,1111001001
T = 1111011111,1110111011,1111010011,1111010001
X = 1101110111,1111011101,1110110000,1111100011
Y = 1110111011,1110001110,1111011000,1111010001
Z = 1110111111,1110111001,1111010011,1111010000
d = 1101111011,1110101111,1110110010,1111010000
e = 1110111011,1110001110,1111011000,1111000100
i = 1110110111,1110101110,1110110001,1110110010
j = 1110110111,1110110001,1111000110,1111010010
l = 1110110111,1110011101,1111010100,1111010010
m = 1110110111,1111010011,1110011001,1111001000
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q = 1110110111,1110011101,1111010001,1111001000
r = 1110110111,1101100011,1110011001,1111010000
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x = 1110110111,1110010001,1110001101,1110001101
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z = 1110110111,1111010010,1111010010,1111000010
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11 = 1110110111,1110010100,1111010001,1111000100
12 = 1110110111,1110010100,1111010001,1111000010
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16 = 1110110111,1110010010,1111010000,1111010000
17 = 1110110111,1110010010,1111010010,1111000100
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1B = 1110110111,1110010010,1111010011,1111000010
1D = 1110110111,1110010010,1111010010,1111010000
1E = 1110110111,1110010010,1111010000,1111010000
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1I = 1110110111,1110101000,1111001000,1111001000
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1R = 1110110111,1110011000,1111001000,1111000000
1U = 1110110111,1110001001,1111010001,1111000100
1W = 1101110111,1110100010,1111010001,1111001000
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1Z = 1110110111,1110110001,1111001000,1111010000
1a = 1110110111,1111001000,1111001001,1111000100
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26 = 1110110111,1110001000,1111010001,1111000100
2B = 1110110111,1110010000,1111010001,1111000100
2G = 1110110111,1111011011,1110011000,1111101000
2H = 1110110111,1111011011,1111010001,1111010000

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$$\sum_0^x \text{Heaviside}(n;4,w:11)$$

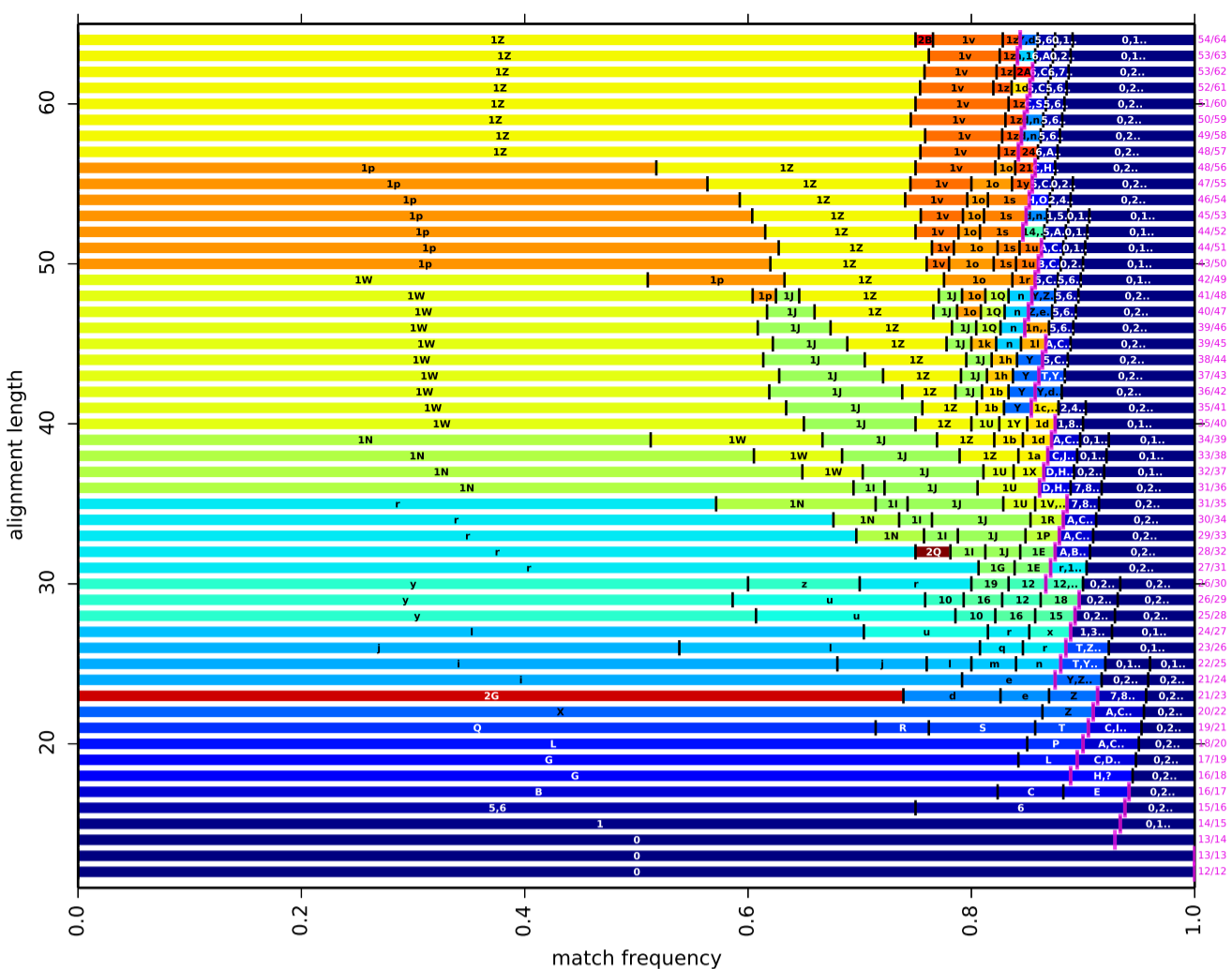


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6 = 1111011111,1101111011,1111100101,1110010011
7 = 1111111111,1101111111,1111010111,1111101011
8 = 1111111111,1101011111,1111011101,1111010111
9 = 1111011111,1101011111,1110110111,1111110101
A = 1111011111,1101101111,1111110101,1110100101
B = 1111011111,1101111011,1111100101,1110010101
C = 1101111111,1101111001,1111101010,1110100101
D = 1110111111,1101111010,1111110100,1110100101
E = 1110111111,1111110101,1101001101,1110100100
F = 1101111111,1110110101,1111011101,1111100111
G = 1110111111,1111101011,1101001101,1110110010
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Q = 1111011111,1101110111,1111010010,1110100010
R = 1111011111,1110110011,1110101010,1110100010
S = 1110111111,1101110101,1110100010,1111100100
T = 1110111111,1101110101,1110100101,1110100100
U = 1110111111,1111101011,1110010001,1111101010
V = 1101111011,1111001011,1110101100,1110100010
W = 1111011111,1110110101,1110100010,1111010100
X = 1101110111,1111011011,1110110000,1111100010
Y = 1110110111,1110001101,1110101000,1111101000
Z = 1110111111,1110110100,1111010010,1111010000
a = 1101111011,1111010110,1110110010,1111001010
b = 1110110111,1111010110,1110010111,1110100010
c = 1110101111,1110111001,1110100010,1111000101
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e = 1110110111,1110001101,1110101000,1111000100
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h = 1110110111,1111010110,1110100100,1111101001
i = 1111010111,1110101100,1110110001,1110100100
j = 1110101111,1110110001,1110001101,1110100010
k = 1110110111,1111000101,1110010100,1111001000
l = 1110101111,1110011010,1110101000,1111010000
m = 1110110111,1110100101,1110010100,1111001000
n = 1110110111,1101100010,1110100100,1111010100
o = 1101110111,1111010110,1110110010,1111000101
p = 1101110111,1111000101,1110101000,1110100000
q = 1110101111,1111001101,1110101000,1111001000
r = 1110110111,1101100010,1110100100,1111101000
s = 1110110111,1101111010,1111001101,1110101001
t = 1110101111,1110110001,1110001101,1110010000
u = 1110110111,1101100010,1110100101,1110100100
v = 1110110111,1110010100,1110100000,1111100000
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x = 1110101011,1111001000,1110001010,1111001000
y = 1110101111,1111001101,1110101000,1111001000
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29 = 1110101011,1110001000,1110100010,1110000000
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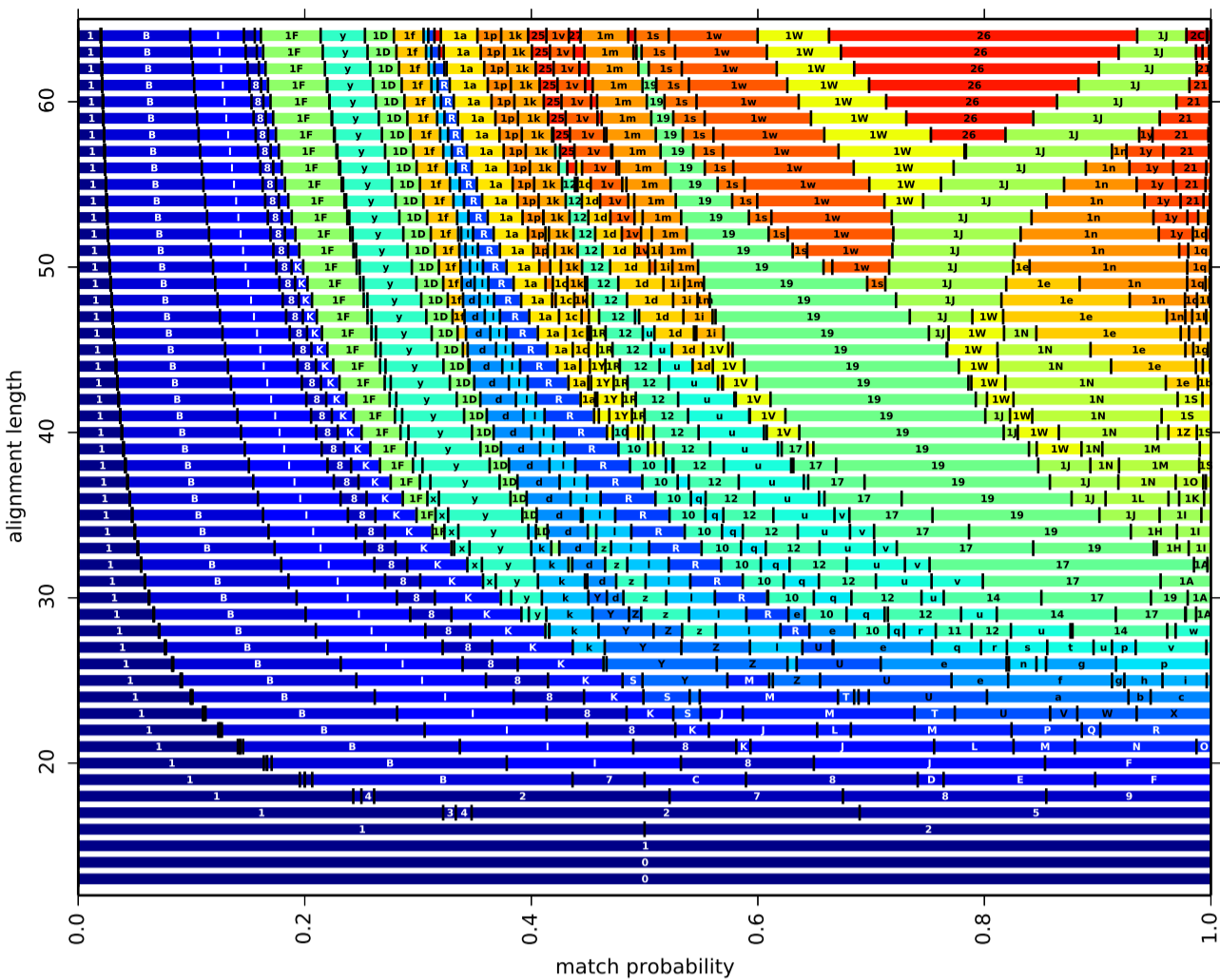
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$$\sum_x \text{Heaviside}(n;4,w;11)$$



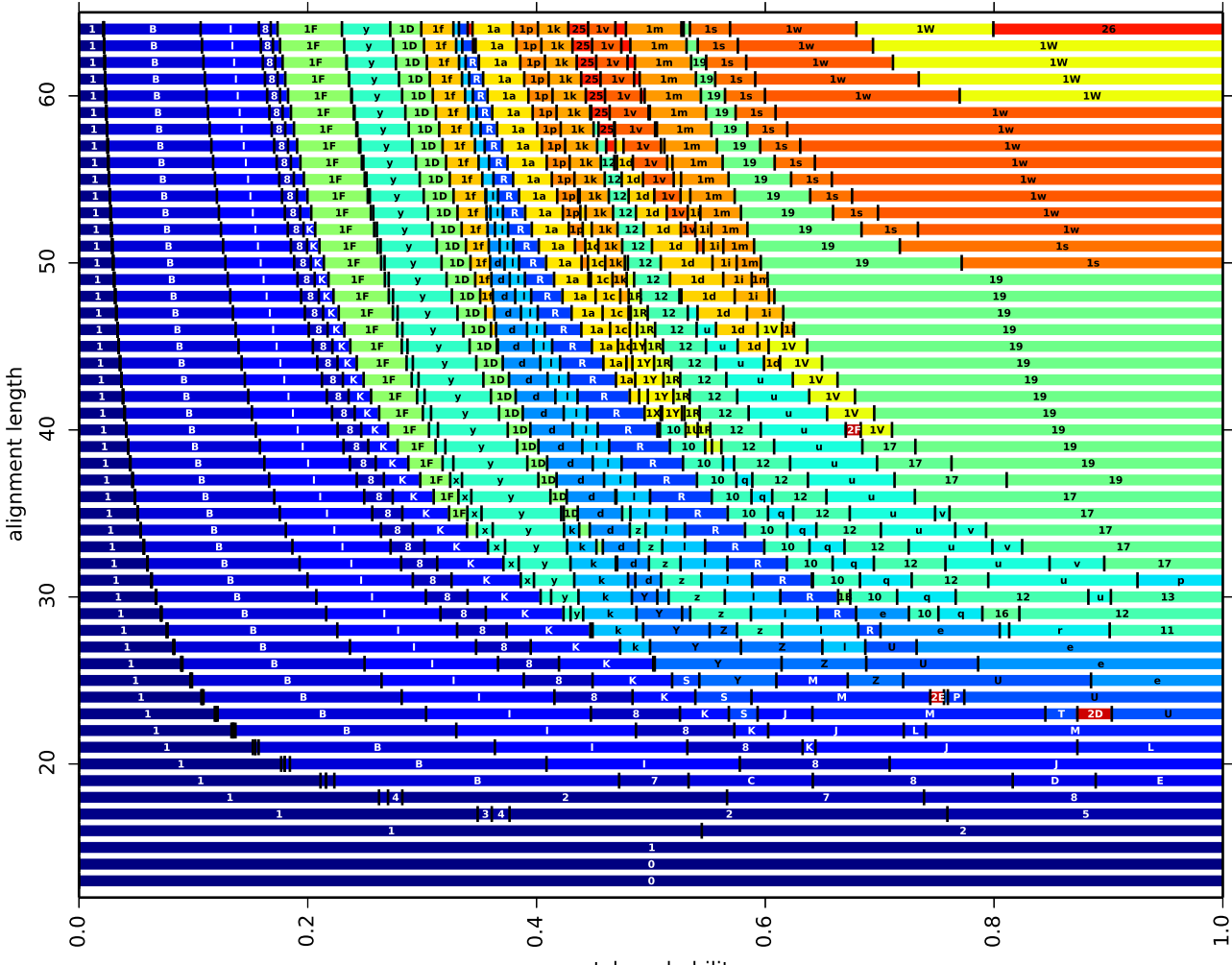
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4	1110111111,1101111011,1110110111,1111110101
5	1101111111,1111001111,1111111010,1111101001
6	1110111111,1101111011,1111110010,1110011010
7	1111111111,1101111111,1111101011,1111101011
8	1111111111,1101101111,1110111011,1111101011
9	1111011111,1101011111,1110111011,1111111010
A	1111011111,1101101111,1111111010,1111100110
B	1111011111,1101111011,1111110010,1110011010
C	1110111111,1101111001,1111110101,1110011011
D	1110111111,1101111010,1111110001,1110100110
E	1110111111,1111110101,1101001101,1111100100
F	1101111111,1110111011,1111101101,1111100111
G	1110111111,1111101011,1101001101,1111010010
H	1101011111,1111110100,1111100110,1110011010
I	1110111111,1101111011,1111110101,1111010010
J	1110111111,1111101101,1101111001,1111010010
K	1101111111,1111001011,1111010100,1110011001
L	1110111111,1111101011,1110011000,1111010001
M	1110111111,1111101101,1101111001,1111010010
N	1101111011,1110101111,1110100011,1110110001
O	1101110111,1111011001,1110101100,1111001001
P	1110110111,1111011001,1110010010,1111010010
Q	1111011111,1101111011,1111010010,1111010001
R	1111011111,1110110011,1101010101,1110110001
S	1110111111,1101110101,1111010010,1111001001
T	1111011111,1101110101,1111010010,1111010001
U	1110111111,1111101011,1110010001,1111101010
V	1101111101,1111001011,1111011100,1110101001
W	1111011111,1110111010,1110110001,1111010100
X	1101110111,1111011011,1110110001,1111000101
Y	1110110111,1101001110,1110110100,1111010001
Z	1111011111,1101110101,1111010010,1111010000
a	1101110111,1110101101,1110110010,1111001010
b	1110111011,1111010110,1101001011,1110110001
c	1110110111,1110111001,1101010010,1111000101
d	1101111011,1110101101,1110110010,1110100001
e	1110110111,1101001110,1110110100,1111000100
f	1101111011,1111010011,1110011101,1110100010
g	1101111011,1110101101,1101110010,1111000010
h	1110111011,1111010101,1110100101,1110100101
i	1111010111,1110101100,1110110001,1110110001
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k	1110110111,1110100110,1110011001,1111010000
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18	1111001101,1111001010,1110010001,1110100001
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1E	1111010101,1110010001,1110010001,1110100000
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1G	1110110111,1110101001,1110100011,1110010000
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1P	1111010101,1110100100,1110100001,1110010000
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1R	1110110111,1110010100,1110010000,1111000001
1S	1110110111,1101110001,1111000110,1110010000
1T	1110110111,1101100010,1110110010,1110100100
1U	1110110111,1110001001,1110100100,1111000100
1V	1110110111,1110010100,1110100001,1110100001
1W	1101110101,1110101000,1110100101,1110100001
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1Y	1110110111,1110010100,1110010001,1110010000
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1g	1110110111,1101001010,1110100100,1110100001
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1m	1110110111,1110110001,1110100100,1110100100
1n	1110110111,1110011010,1110101001,1110100000
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1v	1110110111,1110101000,1110010001,1110010000
1w	1110110101,1110001010,1110110100,1111001000
1x	1110110101,1111010001,1110100010,1110100001
1y	1110110101,1111000001,1110010001,1110010000
1z	1110110111,1110100100,1110010001,1110100000
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2F	1110111111,1111101011,1110100011,1110101000
2G	1110110111,1111101010,1111001010,1110100001
2H	1110111011,1111010110,1111010010,1110100001
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2J	1110101111,1110111010,1111001101,1111001001
2K	1110110111,1110010001,1110101000,1111000001
2L	1101110101,1110100110,1110010100,1111001000
2M	1101110111,1101110100,1111000101,1110100010
2N	1101111011,1111010001,1110011101,1110100110
2O	1110110101,1110110001,1111000101,1110100001
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2Q	1110110101,1110100110,1110100001,1110010001

Bernoulli (n:4,w:12)



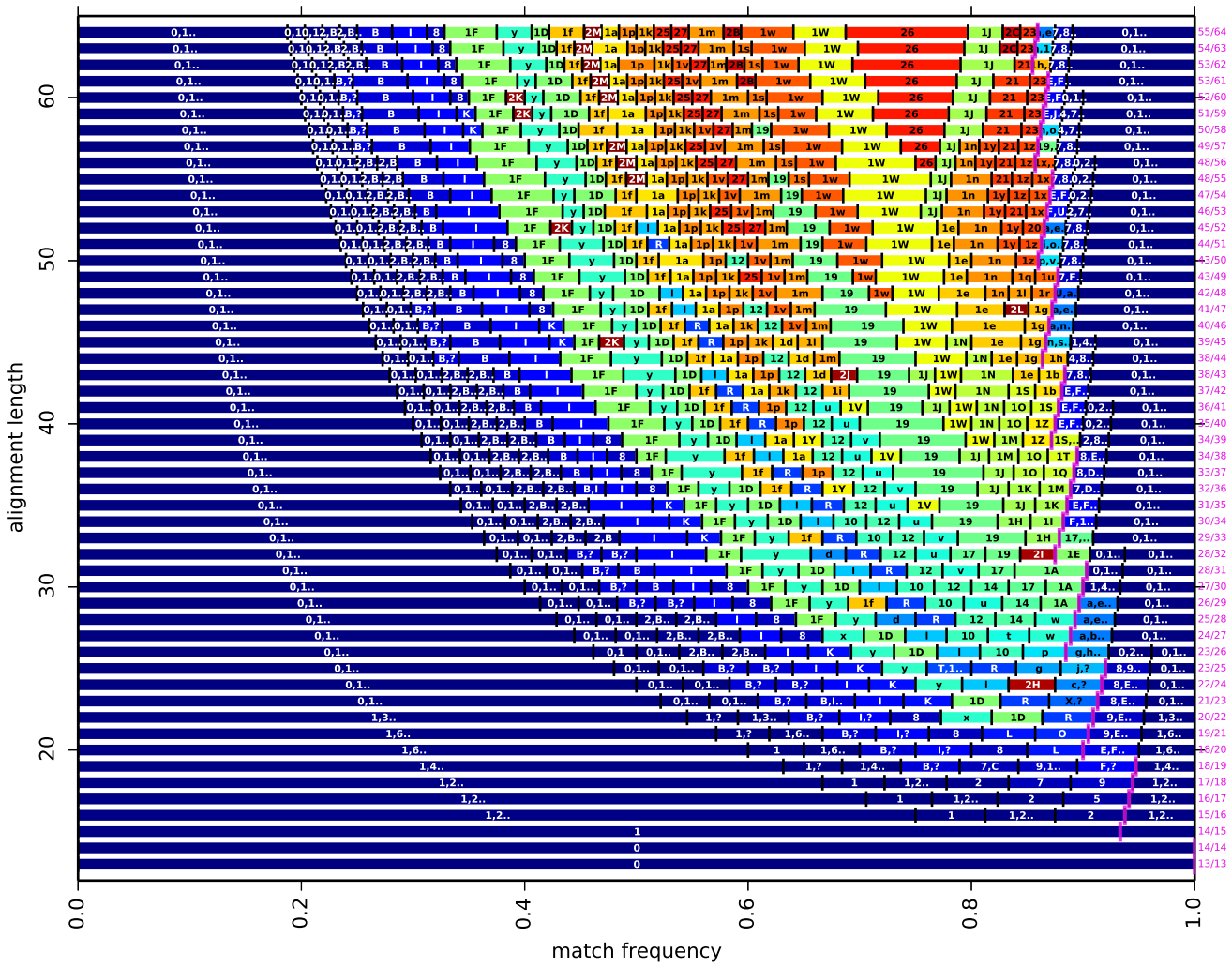
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C = 111101111111,110111110111,111111011101,111110010101111
D = 111101111111,110111010111,1111111001011,111010011101111
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F = 111011111111,1111110011101,1110111101011,1111010011010111
I = 111101111111,110111110111,111111011101,111101100101111
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R = 111011110111,11111010011011,11101101010001111,1111000110101011
S = 111011111111,111111010111,1111100111011,111010100101111
T = 110111110111,1111100101111,111101011001011,1110101000110111
U = 111101011111,1110111110101,11110101000111011,1111100110100111
V = 111011111011,111110101011,1111001011001011,11110110000110111
W = 111011111111,111110010111,1111100111010011,11110101000100111
X = 111011111111,11111011001011,1110101000111011,1111010010010010111
Y = 111101011111,1101110111011,1111110100101,1111000111010111
Z = 110111101111,1110101111011,111011101001011,1111100100011011
a = 111011011111,11111011001011,11110100011011,11110011010010111
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c = 111011011111,111110011101011,1110101000111011,1111001001001001111
d = 111101011111,1110111110101,1110111000111011,11110001101001111
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f = 111011011111,11111011001011,11101010011000111,11111000110101011
g = 111011011111,11101001111011,1110110100101011,111101010001001001111
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k = 111011011111,1101111011101,11101011100111,111110001011011
l = 111101011111,110111110101,111011001001111,1110101000111011
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s = 111011011111,1111100111001011,1110101000111011,11111000100100010111
t = 111101101111,11101001010111,1110101100001011,11110001000100101111
u = 111011101111,1110101000111011,11110010110100111,1111010100010010111
v = 111101101111,111100101101011,11101100010011011,111100101000100010111
w = 111101101111,111110010101011,11111010000011011,11110001000100101111
x = 111011111111,111111010101,11011011100111,11110010110111
y = 111011110111,1101111011011,11101001111101,111101010010111
z = 110111101111,1111101011011,1111001101011,1110111001001111
10 = 111011011111,11110111001011,1110101000110111,111010010100011011
11 = 111101101111,110110010101011,111010111000101,1111010010001001111
12 = 111101101111,1101110100011011,111100101100111,111010010001001111
14 = 111101101111,111100101100111,1110110000011011,111101001000100100111
17 = 111101101111,11110010100111,111011010001101011,111110001000100010111
19 = 111011010111,11110001010101011,1111011000011001101,11111000100010010001111
1A = 111101101011,1111010010100111,111100010101001000111,1111011000010001010111
1D = 110101111111,1111110010111,111001011101011,111110011001011
1F = 111011110111,1101110111011,1111001011111,111011111001011
1H = 111101101111,1111001001001011,111101010001000110011,111110001000010000011011
1I = 111101110111,1111010010010011,1111010000100010011,111100010100001000100111
1J = 11101110100111,111100010010101011,11110101001010001011,1111001000100001010111
1K = 1110110010111,111101000101001011,11100101000010001011,1111010010000000010010111
1L = 1111010110111,111101001001011,1111010000100010011,111100001010001000100111
1M = 11110101001111,11101100011100101,1111001001001000101011,1110101001000001000001111
1N = 1110110110111,1111001001001011,11110010100010001011,1111000100010000010111
1O = 11101010010111,111100010001001011,11110010100100010011,1110100100000001000010111
1R = 1101011110111,11111010011101,111100100101011,11110010101000100111
1S = 1110110101011,11110100011001011,1111000010001001011,1111001100000100001010111
1V = 1110110110111,1111010100011011,111101001101001011,1111000100100010010111
1W = 111011101011,1111010000100011,11101001000100010011,11110100010000100010111
1Y = 1101011110111,11111010011101,1111001000101011,1111010001100010111
1Z = 11101101001011,1111000100010111,1111001010100100001011,111101000100000001000111011
1a = 1101011110111,111111010011101,111100100101011,11110100110001011
1b = 111011011111,111101011001011,1111001000111011,111100100101000101011
1c = 110101110111,11111010011101,111100100101011,1111001010100010111
1d = 1110110110111,111011100011011,11110010101001011,111100100100010100111
1e = 1110110110111,1111001001001011,11101010001000100011,111100010000100100010111
1f = 111101111111,1101111101011,11110011001101,1111010001110111,111010001110111
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1l = 111110110111,111010010101011,1111011100001101,1111010010010010011
1m = 111011111011,1111001000101101,111010101010000111,11101010100001100111
1n = 1110110110111,11110101001001011,11101000110001011,111010001000100010010111
1p = 1101011110111,11111010011101,11101001110001011,1111001001010111
1q = 1110110110111,111011001010011,1110100010101011,11111000100100010010101
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1v = 111011011011,1111011100010111,1110100010100111,11110001010100100111
1w = 1110110101011,111101000101011,1111000101001001011,1111001001000010010111
1y = 1110110110111,111101010010011,11101000110001011,1111001001000101011
21 = 1110110110111,11110100100101011,1110011000110001011,111010001001000101011
25 = 1110110110111,111111000101011,11110001010001011,11101001001001011
26 = 111011010100111,1111001000101011,1110101001000100011,11110010000100010001011
27 = 1110110111011,111010111000011,1111001000101101,111100100100101000111
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\int_0^x Hit Integration (n:4,w:12)



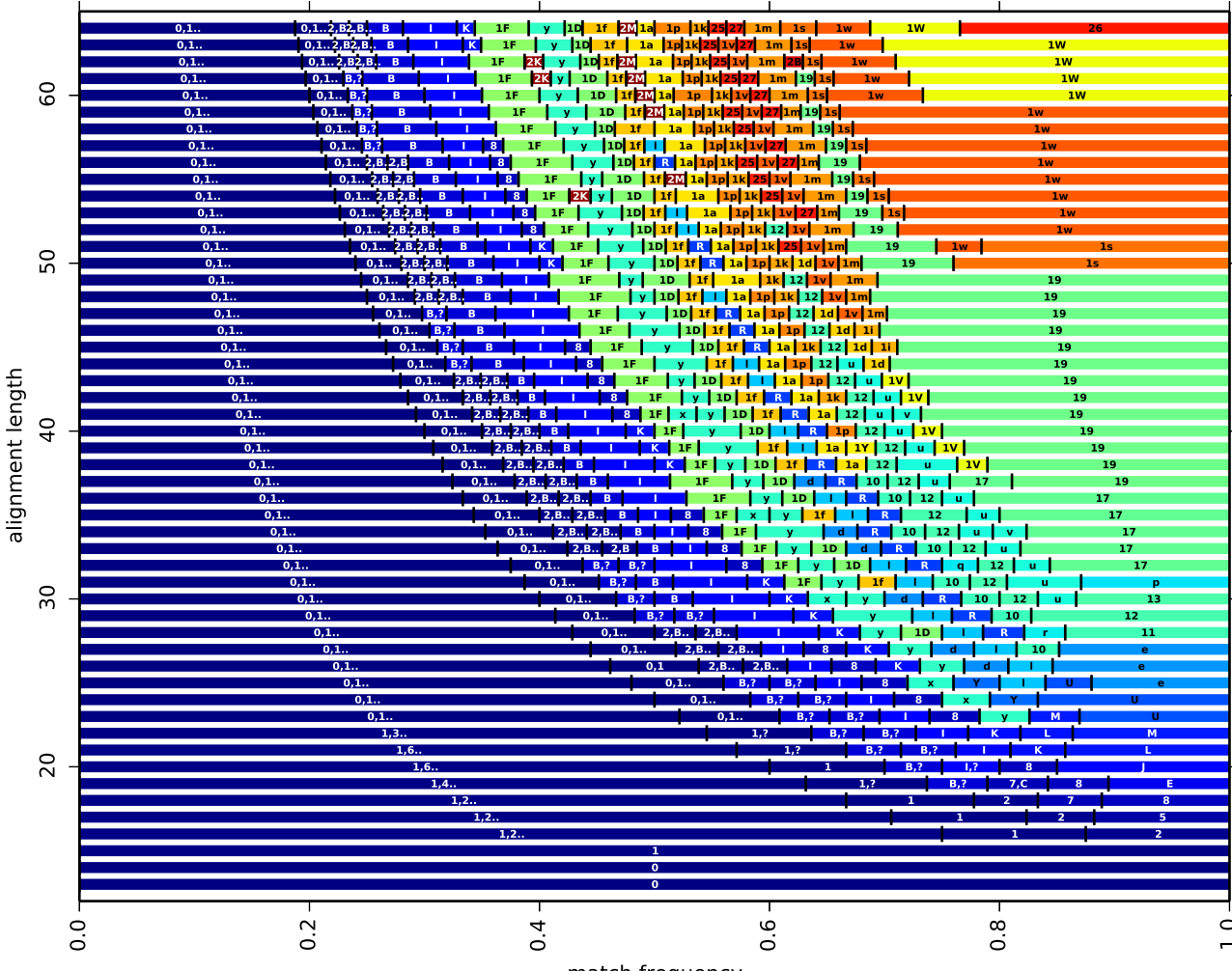
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5	=	111110111111,110101111111,1111111101011,111011001110111
7	=	111101111111,110111110111,1111110111011,111110110100111
8	=	111101111111,110111110111,1111110011011,111100110101111
B	=	110111111111,1111011111011,111110110111,1111110101111
I	=	111101111111,110111110111,111111011011,111110010110111
D	=	111101111111,110111010111,1111111001011,111101001110111
E	=	111101111111,110111100111,1111110101011,111100101010111
f	=	111101111111,110111110111,111111011011,111101100101111
J	=	111011111111,111111010111,111101001110111,111110110010111
K	=	111101111111,111011110011,1111110101011,111101001101111
L	=	111011111111,111111010111,11110101110001111,1111011000110111
M	=	111011111111,111111010111,1111001001110111,111101100011111
P	=	111101101111,1110111110101,111010100111011,11110011000101111
R	=	111011110111,11110100111011,11101101010001111,111100101101011
S	=	110111111111,111111010111,1111100111011,11101011001101111
T	=	110111111011,1111100101111,1111010111001011,11101010001101111
U	=	111101111111,1110111110101,11110101000111011,1111100110100011111
Y	=	111101101111,1101110111011,111111010011011,11110001110101111
Z	=	110111101111,1111010111011,1110111011001011,11111001000110111
d	=	111101101111,1110111110101,1110111000111011,11111000101001111
e	=	110110111111,1111011110101,111011010011011,11111010001000101111
k	=	111011011111,1101111101101,111010111001111,11111000101101111
l	=	111101101111,1110111110101,11101100101001111,111101010001110111
p	=	111101101111,111100101101011,11101110100011011,1111100010001000101111
q	=	111011011111,1110111000111011,111101111001011,111101001000111111
r	=	111011011111,111101100011011,1111100011101011,111110010001000101111
u	=	111011101111,1110110100011011,11110010110100111,111101001000100101111
v	=	111101101111,111100101100111,11101100010011011,1111001010001000101111
x	=	111011111111,1111110101011,110110111100111,1111001101101111
y	=	111011110111,110111011011,11101001111011,11111010100101111
z	=	110111110111,1111101011011,111100110101011,111011100100011111
10	=	111011011111,111110111001011,1110101000110111,11110100101000101111
11	=	111101101111,111011001010111,111011110001011,111101001000100011111
12	=	111101101111,1101110100011011,11110010110100111,11110100100010101111
13	=	111101101111,11011101000111011,11110010110100111,1111100010001000101111
16	=	111011011111,111011100011011,1111100011101011,111100100100010011111
17	=	111101101111,111100101100111,111011010001101011,11111000100010001001111
19	=	111011010111,1111000110101011,1111011000011001011,1111001000100100011111
1B	=	110111110111,11111010010111,111000111011011,11111001000100101111
1D	=	110101111111,1111110010111,1110011011101011,11111001110010111
1F	=	111011110111,110111011011,1111100101111,111011111001011
1R	=	110101111011,1111110011101,1111001100101011,111100101010001001111
1U	=	110101101111,1111100111011,111001100101111,1111010001010011111
1V	=	111011011011,11110100011011,111100101001011,11110001000100101111
1W	=	1110101101011,1111011000101011,11101001000100010111,11110100001000100101111
1X	=	111011011111,111011100011011,1111010111001011,1111001001010011011
1Y	=	110101111011,111111010011011,1111001100101011,11110100011000101111
1a	=	110101111011,111111010011011,1111001100101011,1110110011000101111
1c	=	110101111011,111111010011011,1111001100101011,11100101011000101111
1d	=	111011011011,111011100011011,111100101101001011,111100100010001001111
1f	=	111101011111,1101111101011,1111100111001011,11101010001101111
1k	=	111011011011,11110111000101011,111010001011001011,1111000101000100101111
1l	=	110101111011,11111101011011,11110011001010011,1110110001000101111
1m	=	1110110111011,11111001000101011,11101010110000111,1110100100100011101111
1p	=	110101111011,111111010011011,111011001110001011,1111001000101101111
1s	=	111011011011,11110110000101011,111010001100010111,11101000100001010011111
1v	=	111101111011,1110111000101011,11101000101001111,1111000101010010011111
1w	=	11101101101011,11110110001101011,11110001010010001011,111001100000010010011111
25	=	1110110111011,1110111000101011,111110001011001011,111011001000100101111
26	=	11101101100111,111010011000101011,11101010010100010001111,111101000100001001000101111
2D	=	111101101111,111111011101011,111110100011011,111100010100101111
2E	=	111101101111,11101111101011,1111001101001111,11111010001101111
2F	=	111101110111,11110010110100111,111011010001101011,11101100010001000101111

Dirac (n:4,w:12)



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3 = 111111111111,110111111111,111110111111,111111101011
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C = 111101111111,110111110111,111111011011,11110001101111
D = 111101111111,110110110111,11111110001011,110100011101111
E = 111011111111,11011110011111,11111101101011,11100010101111
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G = 111111111111,110111111111,111110111011,111110101111
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I = 111101111111,110111110111,111111011011,1111011000101111
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O = 111011101111,11111000110111,11100010101111,1110101100001011
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$$\sum_0^x \text{Heaviside}(n;4,w:12)$$

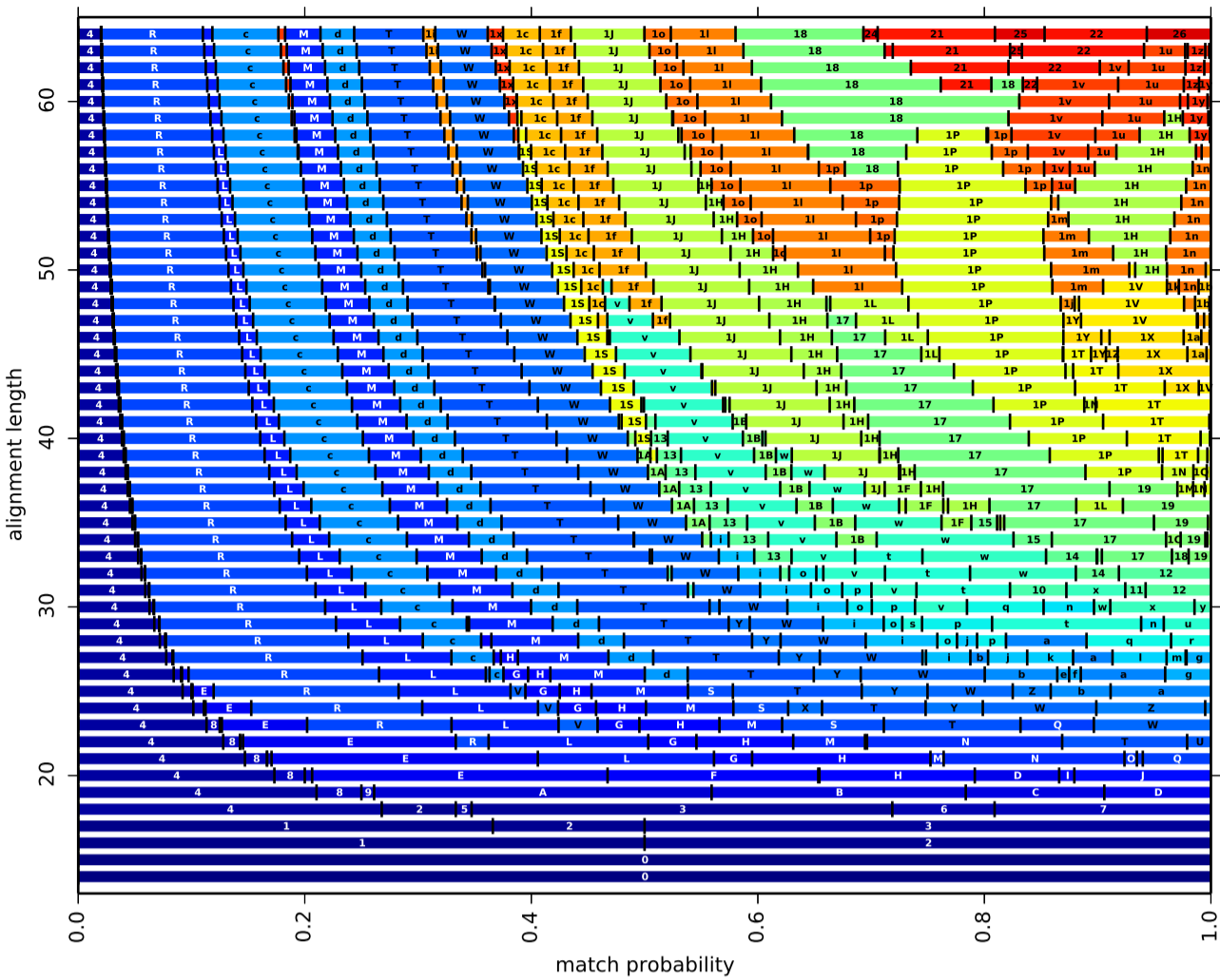


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B = 110111111111,1111011111011,1111011101011,1111110101111
C = 111101111111,110111110111,1111110111011,111110010101111
D = 111101111111,1101110110111,1111111001011,111010011101111
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2J = 1110101101111,11110110000101011,11110001100010111,11110001001000101001111
2K = 111101011111,1110101110111,1111111001011,11100011010111
2L = 111011011111,1111001010100111,1110101000101011,11110101000100010010111
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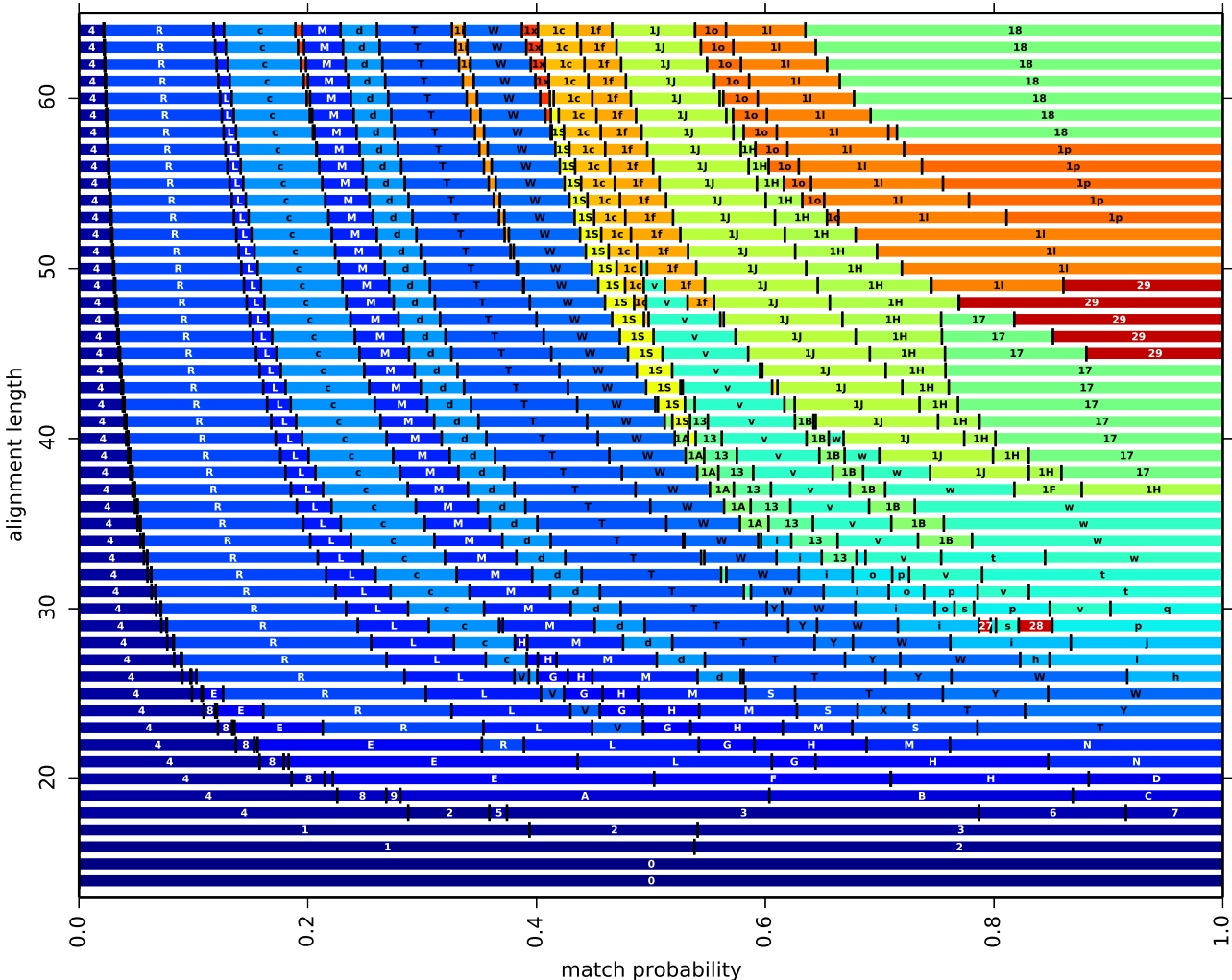
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Bernoulli (n:4,w:13)



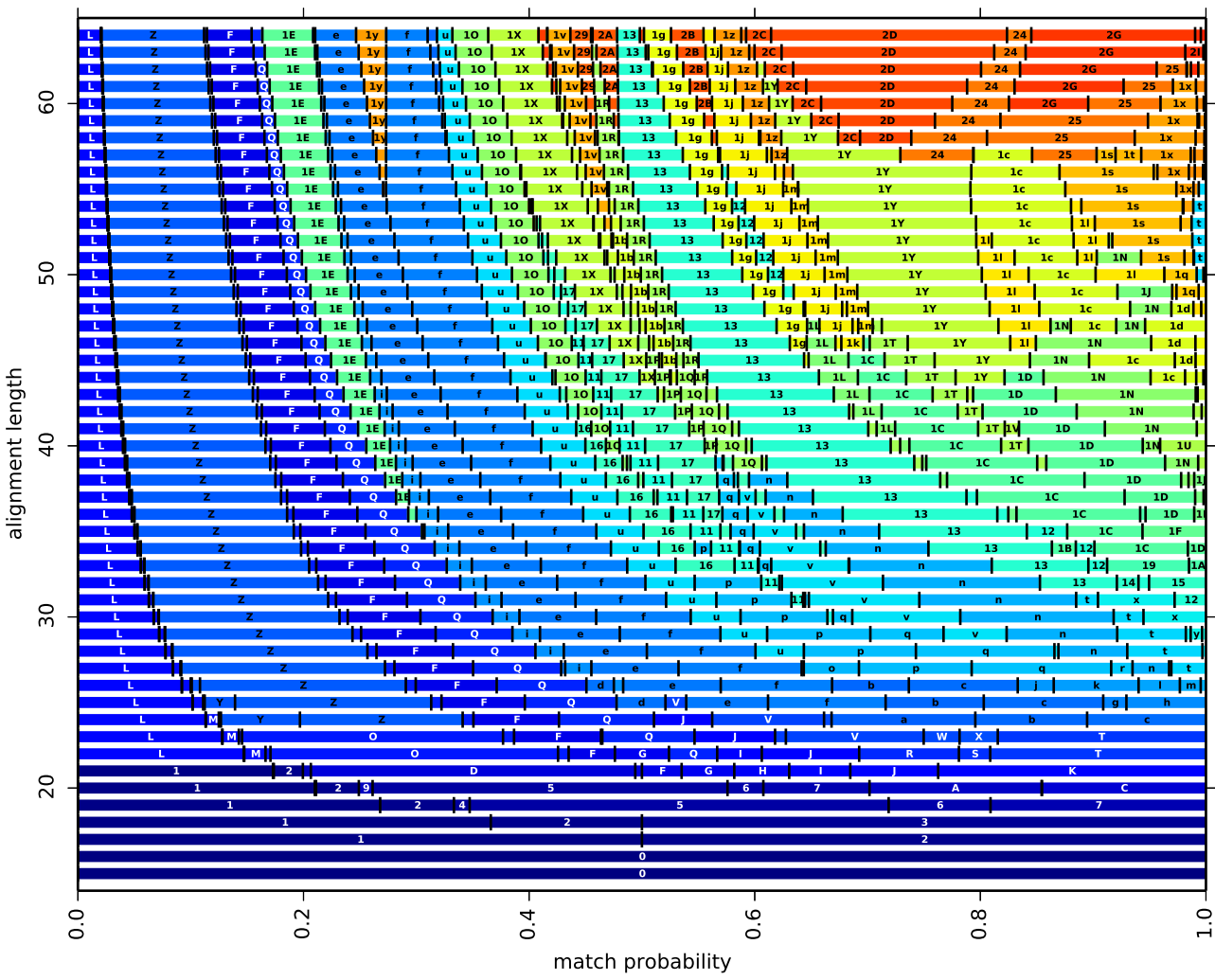
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2 = 111111111111,110111111111,111110111111,111111110111
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4 = 111111111111,110111111111,111110111111,111111110111
5 = 111111111111,110111011111,111101101111,111111110111
6 = 111101111111,110111110111,111111011011,11111111001011
7 = 110111111111,11110111011011,11111011100111,11111100101111
8 = 111111111111,110111111111,111111011111,111110111011
9 = 111111111111,110111101111,111101111011,111111011011
A = 111101111111,110111011111,111111001111,111111110101
B = 111101111111,110111111011,111111010111,1110111011001111
C = 111101111111,1101101111011,11111110100111,11100101101111
D = 110111111111,11011110011111,11111101101011,1110010101101111
E = 110111111111,1111011111011,1111101110111,11111101011111
F = 111110111111,1101111101111,11111111101011,1111100110110111
G = 110111111111,1111110101111,11110011101011,1111101100101111
H = 111101111111,1101110111011,11111110010111,11100101101111
I = 111101111111,1111110110111,11010011110111,1101110110011111
J = 110111111111,11111101011011,1101001100111111,1110101111000111
K = 111101111111,1101111110111,1111110101111,1111100110110111
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N = 111101111111,11111101011011,110111011001111,11010011101011
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Q = 110111111111,1111011110111,1111101110111,1111100101101111
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U = 111011111111,1111101010111,1110010011110111,1110111000101111
V = 111101111111,1101111110111,1111110101111,11110100101111
W = 111101111111,1101111110100111,11101001011101111,111101010001110111
X = 111011111111,11111101011011,110101110001111,1110100110110111
Y = 111101111111,1101111110111,1111100111001011,111101010001101111
Z = 1110111011111,1111001111011,11110101000110111,111010010110100111
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b = 1110111011111,11101001110111,1110111010011011,11110100011000101111
c = 111011111111,1101111011011,11111011110101,11111101001111
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10 = 1111011011111,1111001011001011,110111010000110111,1111001010001000101111
11 = 1111011011111,11110101100011011,1101101000011011,1111000100001000101111
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13 = 1111011011111,1110101011100111,1111010100101011,111101000101010111
14 = 1111011011111,1111001011010011,111011010001101011,1110010100010001001111
15 = 111101101101111,111100011010100111,110111000001101011,111101001001000100011111
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18 = 111011101010111,111010000101001011,11101001000010101011,11101001000101000001111
19 = 110111101101111,11111001010010111,111010100010001100111,1110001100010000010101011
1A = 11011111101111,1111100101101011,1101011100101111,11101001001010011111
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1F = 111101101110111,11011100001101011,111100011101001011,11101001001000100011111
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1V = 111011011011111,111100100011001011,11100010001001010111,1111001010000001000100010111
1X = 111000110110111,111010101000110001011,11101001000010010010111,11110010010001000001010111
1Y = 111010011010111,111010100011001011,11110001000100010010111,1111001000100001000010001111
1Z = 11101001101010111,1110110101000110011,11110010001001000100111,111000100100001000010001111
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1c = 1110111011111,11101111100101011,111100010010101011,11101010010100011111
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1i = 1101111101111,111100101110101,1110111011001011,1110111000111011
1j = 111010110101111,1110101010010001011,11100110000100010100111,1111001000100001000010001111
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1n = 111101101101111,110110011000101011,111010100110001011,11100100100100010101011
1o = 111010110101111,111011010001101011,11110001001000101011,11100101000100000101111
1p = 111011101101111,111010100001101011,11101000101000101011,111100101000101000010111
1u = 111010111010111,111011010000101011,111001000101000101011,11110010100010010000101011
1v = 111011101101011,11101011001010001011,11101000010100101011,1111000100010010010010111
1y = 1111011011111,1111010111001011,1110101100011011,11100100101100111
1z = 11101011101111,11101001100101011,11100101000110001011,1110100100010001010111
21 = 11101101101010111,1110010101001001011,11101010000100011001011,1111001000100001000100010111
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\int_0^x Hit Integration (n:4,w:13)



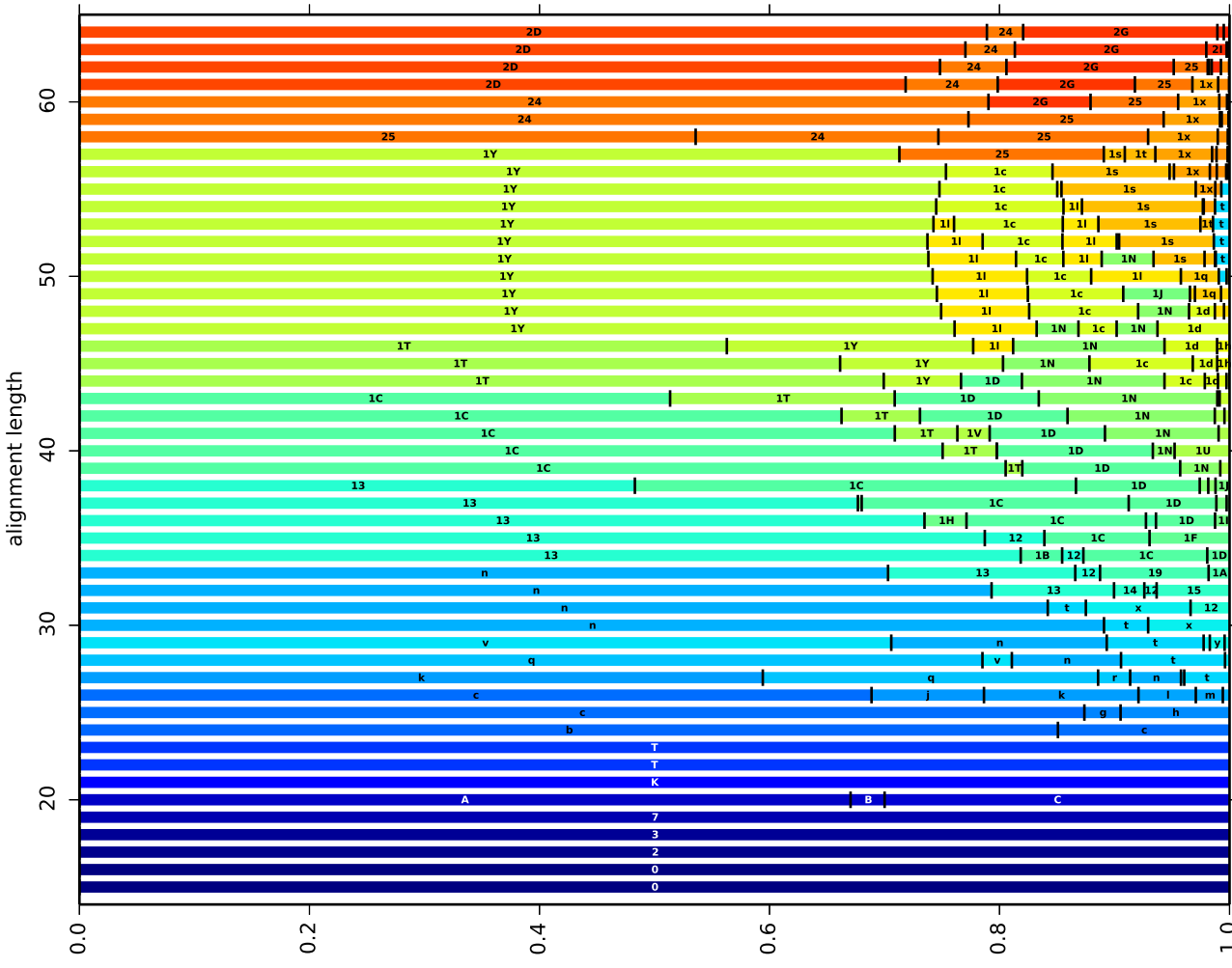
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B = 111101111111,11011111110111,1111110101111,1111011101001111
C = 111101111111,11011101110111,11111110100111,1111001011101111
D = 111011111111,11011110011111,111111011010111,1110010101110111
E = 110111111111,11110111110111,1111101110111,11111101011111
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V = 111101111111,11011111110111,1111110101111,1111011001011111
W = 111101011111,1101111110100111,11110100101101111,1111010110001110111
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Bernoulli (n:4,w:14)



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 C = 11101111111111,1111101011101111,1111110110011111,1110100111010111
 D = 11011111111111,1111101111011111,1111110101111111,11111111011011
 F = 11101111111111,11111111011011,1101111101101111,1111100111010111
 G = 11011111111111,11111101110111,111100111101111,1111110110011111
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 I = 11111011111111,11101111011111,1111111110010111,1111001011101111
 J = 11111011111111,1110111101101111,1111111110010111,1111001011101111
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 V = 11110111111111,1101111110011111,1111111010110111,1111010011011011
 W = 11110111111111,1111111010110111,1110110111001111,1111010011011011
 X = 11101111111111,1111111100101111,11100111010110111,11110101011001111
 Y = 11011111111111,11111011111011,1111110110111111,1111111011101111
 Z = 11011111111111,1111101110111111,1111110111101111,1111110111110111
 a = 11111011111111,1110111111010111,111011000111101111,11111011100010111
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 c = 11111011111111,1110111111010111,111011000111001111,1111110101000110111
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 1J = 11101110110111,11110100100101001111,111110001100010010010111,111100101000100010000100011111
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 1Q = 11101101101111,111101000111010111,111101110010100111,11111001001000101010111
 1R = 11101101101111,1111011110010100111,1111010001100110111,11111001001000101010111
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 1V = 111101101110111,11101101001010001111,1110110001001001100111,111110000100010010111
 1X = 111101011110111,1101111110101011,11101100101000111111,11110011001101100111
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 1v = 111101101110111,111101010100111011,11101111000100111011,11110100101010001111
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 25 = 1110110110110111,1110111000101010111,111011000110100010111,1111010001000100100101001111
 29 = 11101101101111,11110111001000111,1111010001110100111,1111001001000101010111
 2A = 11101101101111,111011110010100111,111101000111001011,11110010010001001010111
 2B = 11101101101111,111100111101000101011,11110101000110010111,1111000100100010010010111
 2C = 11101101010110111,111110100010101001011,11101010100000110010111,11110001001001000100011111
 2D = 1110110101101111,111101000100100010111,1110100011000010101011,11110001001001000100011111
 2G = 1110110101101111,111101010100100010111,111100100001010010111,111100100101001000101001111
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\int_x^1 Hit Integration (n:4,w:14)

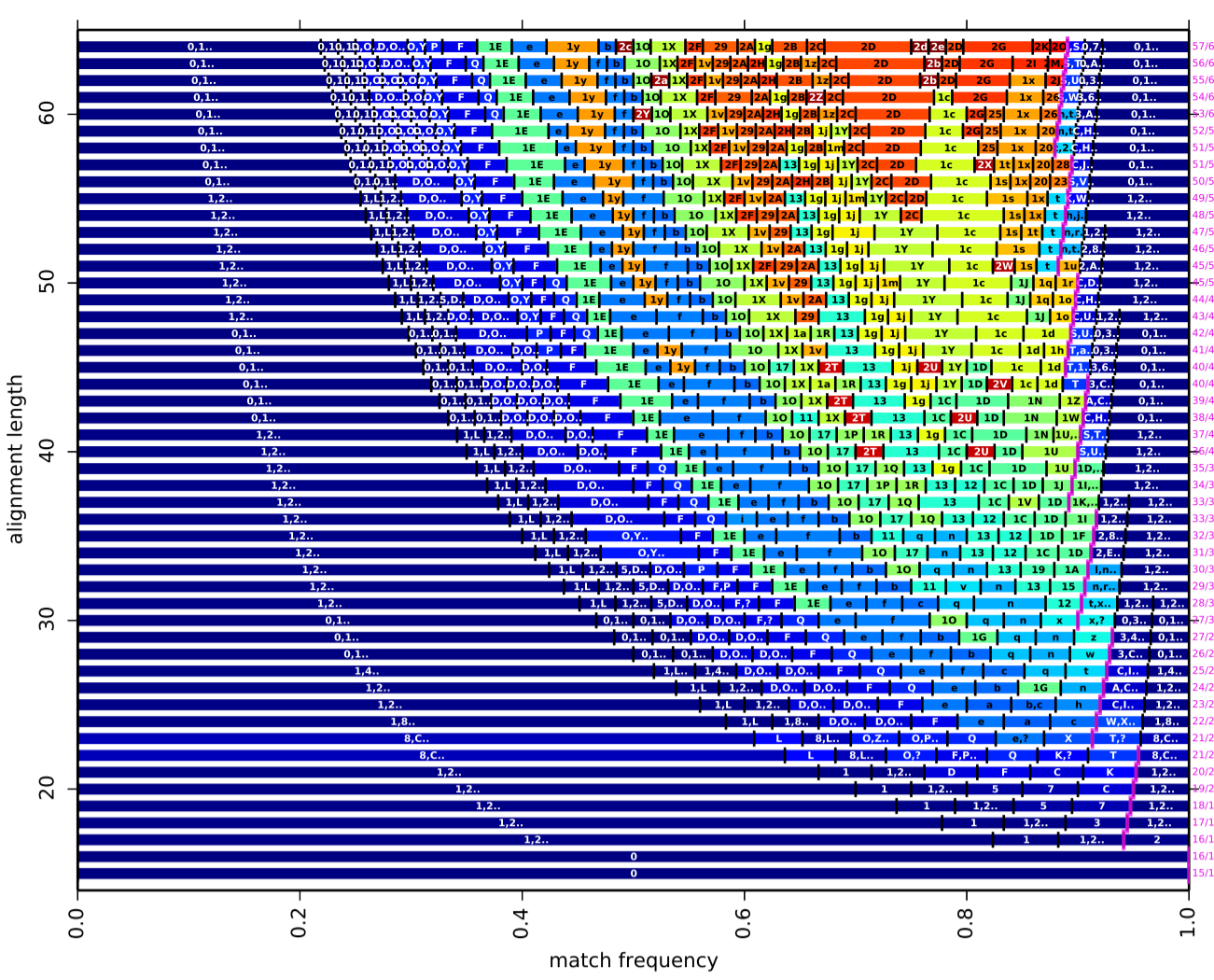


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2 = 11111111111111,11111011111111,11101111011111,1111111110101111
3 = 11011111111111,1111011110101111,11111010111111,1111111111001111
7 = 11110111111111,1101111101111111,1111110011101111,1111111111001011
A = 11101111111111,1101111101110111,1111110111001111,1111110010111111
B = 11111011111111,1110111111010111,1111111100110111,111101100110101111
C = 11101111111111,1111110101110111,1111110110011111,111010011110101111
K = 11101111111111,1111110101110111,1111011111001011,111101001011110111
T = 11110110111111,1111111110010111,111010011101110111,111011101111001111
b = 11111011011111,1110111111010111,111110111000110111,111011000111001111
c = 11111011011111,1110111111010111,111011000111001111,11111101010001101111
g = 11101111011111,1111110011110111,11101101110101001111,11110101000100111111
h = 11101111011111,1111110011110111,1110110101000110111,11110010010110101111
j = 11111011011111,1110111111010111,111101110010100111,1111010000101101111
k = 11101111011111,1111110011110111,111110101000110111,11110010010110101111
l = 11111011111111,1111011111010111,1111011000101101111,1111101001100011001111
m = 11101111011111,111110111001110111,1111010011101001111,1111100110000100101111
n = 11110111011111,11110100101110111,11110111011000010111,1111010010000100101111
q = 11111011011111,1111011111001011,111101010001110111,111101100101000101111
r = 11111011101111,11110100101110111,111101110110000110111,111101001100011100101111
t = 11110111011111,111101001011100111,111101110110000110111,111101001100010101001111
v = 11101111011111,1111110011101011,11110110101000110111,11110010010110101111
x = 11110111011111,11110100101110111,111101110110000110111,111110100100001000101111
y = 11110111011111,111111100010110111,11111001011100100111,111101010010000101001111
12 = 1110111101101111,111101110001101010111,11110010110001001111,11110100100010010101111
13 = 1110110111011111,11110111100101001111,11110100011100110111,1111100100100010100011111
14 = 1110111011011111,111101111000111010111,111101001011000101111,1111100101000100101001111
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1A = 11101110110101111,1111001110001101010111,1111010010110000111111,11111001000100010010011111
1B = 1110111011011111,111101010110001110111,11110110000111010111,11111010001000100100101111
1C = 11101110110101111,1111011110001101010111,1111010010110000111111,11111000100010010010001111
1D = 11101110110101111,111101001001100110111,111101000110010100010111,1111100101000100001010001111
1F = 11101110110101111,1111001110001101010111,1111010010110000111111,1111110001000100010000101111
1H = 1110111011011111,1111010011000111010111,11110100101000110111,111110010100001000101111
1I = 1111011011011111,11111011100010010111,111110000011101010111,11110010100100010000011111
1J = 1111011101101111,111101001011001111,111110001100010010010111,1111001010000100010000100011111
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1T = 1110111101101111,1111001110001101010111,1111010010110001001111,1111100100010001000100011111
1U = 111101100101101111,11111010101100010001111,1111001100100001010010111,1111010010000000010010101111
1V = 11110111011101111,111101101001010001111,111011010001001001100111,1111100000110001000100101111
1Y = 111011101101101111,111100110001101010111,1101101001010100001110111,1111100010001001001000011111
1c = 1111011101101111,1111101000100110010111,11110011000100010010111,1111100100000010000100101111
1d = 111011010011011111,11111010110010010100111,111100100010100010001001111,1111000101010000010000100011111
1h = 111011010011011111,11111010110010010100111,111100010010100010001001111,111100010101000000001100011111
1l = 11110111011101111,111100101001011001111,11111000110010001001010111,111100101000100001000010011111
1q = 1111011101101111,11110100101101001111,11111000110010010001010111,111100101000010001000100101111
1s = 1111011101101111,111110010110001010111,1111001100010100011001101,111110010001000100001000101111
1t = 1111011101101111,111110010110100010111,1111001100010100011001101,1110100110001000100001000101111
1x = 1111011011101111,111100110001011010111,1111010010011001010111,11110001100010001010001010111
24 = 111010110110110111,1111011100010100100111,11110100011000101010111,1111000101001001000100011111
25 = 11101110110101111,1110101100001101010111,111011000110101000110111,1111010001000100100100101111
2D = 1110110110110111,11110101000100110010111,11101100011000010101011,11111000100100100100010001111
2G = 111101101101101111,11110101011001000110111,11110011000010100101011,1111001001010010001010001111
2I = 11101110110110111,111100110101000110111,111100101000110100010111,1111011000100100000101010111

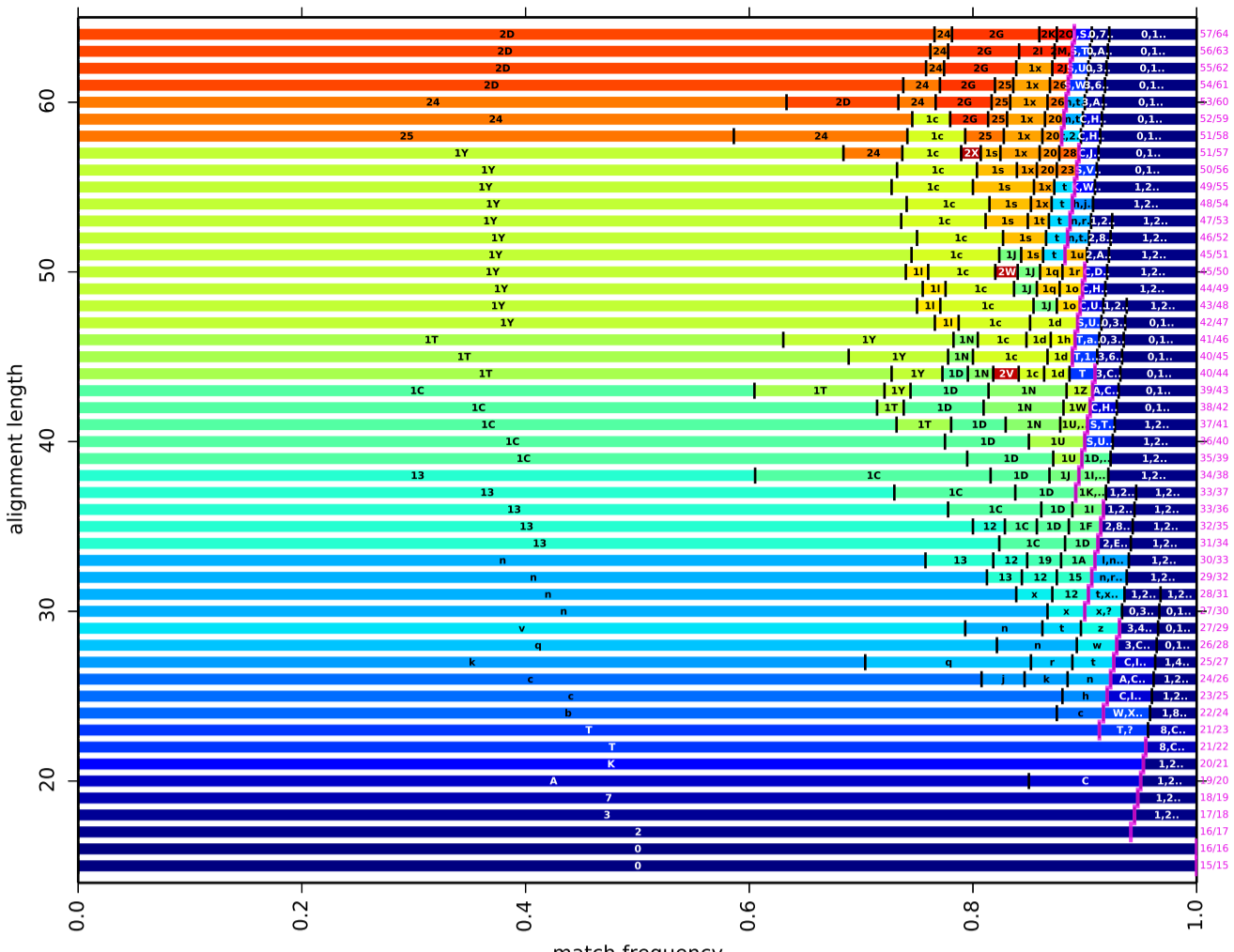
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Dirac (n:4,w:14)



Label	Match Frequency
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2 =	11111111111111,11110111111111,11101110111111,1111111110101111
3 =	11011111111111,11111011111111,11111010111111,1111111110001111
4 =	11111111111111,11101011111111,1111110111011111,1111111110101111
5 =	11111110111111,11010111111111,1111101110101111,1111111110101111
6 =	11110111111111,11011111011111,1111111011101111,1111111110010111
7 =	11110111111111,11011111011111,1111110011101011,1111111110010111
8 =	11111111111111,11101110111111,1111110111101111,1111111011101111
9 =	11111111111111,11101101111111,1111101111101111,1111111010111111
A =	11101111111111,1101111101101111,1111101110011111,1111110010111111
B =	11110111111111,11011111101011,1111111001101111,111011001101011111
C =	11101111111111,1111101011101111,1111110110011111,111010011101011111
D =	11011111111111,11111011110111,11111101011111,1111110110111011
E =	11110111111111,11011111101111,11111110101111,1111110110101111
F =	11101111111111,11111110111011,11011110101111,1111100111010111
G =	11011111111111,11111101110111,1111100111010111,1111110110011111
H =	11011111111111,11110111101011,11111101011111,1111101110010111
I =	11111011111111,11101110111111,11111111001011,1111100101101111
J =	11111011111111,11101110110111,11111111001011,1111100101101111
K =	11101111111111,11111101011011,1111011110010111,1110100101101111
L =	11111111111111,11101111111111,11111101111111,11111111011111
M =	11111111111111,11101111111111,11111011110111,1111111010111111
N =	11111111111111,11101110111111,11111011110111,1111111010111111
O =	11011111111111,11110111110111,11111001111111,11111110101111
P =	11101111111111,11111011111011,11111101011111,1101111011011111
Q =	11011111111111,11110110110111,11111001110111,1111111010011111
R =	11111011111111,11101110111111,11111111001011,111100010110111111
S =	11110111111111,11011110110111,111111110011011,111010011010111111
T =	11110101111111,11111111001011,11100111010111,111011101011001111
U =	11110111111111,11101111101011,11111110010111,1110100110101111
V =	11101111111111,11101111100111,11111101010111,1110100101101111
W =	11110111111111,11111110101011,1110110111001111,1110100101101111
X =	11101101111111,11111110010111,1110011101011011,111010101100111111
Y =	11011111111111,11111011111011,11111101011111,11111101101111
Z =	11011111111111,11110110110111,11111101110111,11111101111011
a =	11111011011111,11101111101011,1110110001110111,1111101100010111
b =	11111011011111,11101111101011,1110111000110111,111010001100111111
c =	11110110111111,11101111101011,111011000111001111,111110101000101111
d =	11110111111111,11101110110111,11111110010111,1111010011101111
e =	11011111101111,11110111101011,1111101000111111,1110100110101111
f =	11111011011111,11101111101011,1110110001110111,1111011000101111
g =	11101111011111,11111001111011,1110110110100111,111010100100111111
h =	11101110111111,11111001110111,111011010100010111,111100100101011111
i =	11011111101111,11110111101101,1111101001111111,1111001110101111
j =	11111011011111,11101111101011,11110110010100111,111010001011011111
k =	11101111011111,11111001110101,11111010100010111,111001001010101111
l =	11111011111111,1110111010111,1110110001010111,1110100110001011111
m =	11101111101111,1111110100110111,11101001110010111,11110010001001011111
n =	11110110111111,1111010010110111,111011101000010111,1110100100001001011111
o =	11111011011111,11101111101011,1111101100010111,111010001011011111
p =	11110110111111,11101111110101,11110101100010111,111011000101011111
q =	11110110111111,11101111100101,11101010001110111,111011001010001011111
r =	11110110111111,1110100101110111,111011101000010111,1110100100011001011111
s =	11110110111111,111010010110111,111011101000010111,1110100100010100111111
t =	11110110111111,1110100101100111,111011101000010111,1110100100010100011111
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v =	11101110111111,11111001101011,111011010100010111,111001001010101111
w =	11101101111111,1110110110100111,111101001000101011,111101010100000100111111
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y =	11101101101111,1110110001010111,111010010110010111,11101010100010001011111
z =	11110111011111,1110110100010111,111010001110010111,1111100000100101011111
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3 =	11101111011111,1110110001101011,111010010100010111,1110100100001001011111
4 =	11101111011111,1110110001101011,111010011000101011,111010100000100001011111
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6 =	11101111011111,1110111001101011,111010011000101111,1110110001010001011111
7 =	11101111011111,1110111001101011,111010011000101111,11101100010100001011111
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F =	11101111011111,1110111001101011,111010011000101111,11101100010100001011111
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H =	11101111011111,1110111001101011,111010011000101111,11101100010100001011111
I =	11101111011111,1110111001101011,111010011000101111,11101100010100001011111
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Q =	11101111011111,1110111001101011,111010011000101111,11101100010100001011111
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c =	11101111011111,1110111001101011,111010011000101111,11101100010100001011111
d =	11101111011111,1110111001101011,111010011000101111,11101100010100001011111
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o =	11101111011111,1110111001101011,111010011000101111,11101100010100001011111
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s =	11101111011111,1110111001101011,111010011000101111,11101100010100001011111
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u =	11101111011111,1110111001101011,111010011000101111,11101100010100001011111
v =	11101111011111,1110111001101011,111010011000101111,11101100010100001011111
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A =	11101111011111,1110111001101011,111010011000101111,11101100010100001011111
B =	11101111011111,1110111001101011,111010011000101111,11101100010100001011111
C =	11101111011111,1110111001101011,111010011000101111,11101100010100001011111
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E =	11101111011111,111011100

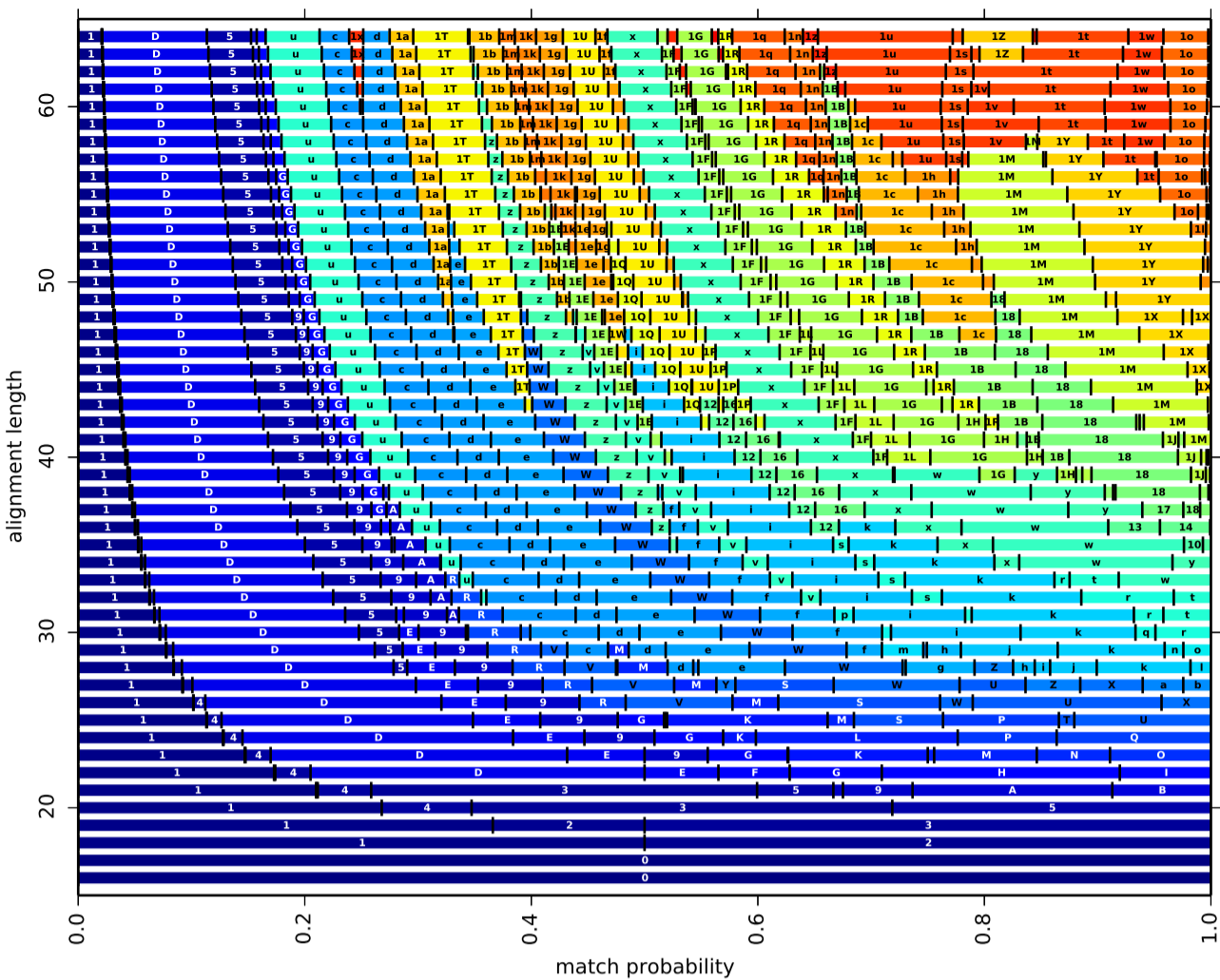
$$\sum_x \text{Heaviside}(n;4,w;14)$$



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6 = 111101111111,110111101111,111110111011,111111111001011
7 = 111011111111,110111101111,1111100111011,111111111001011
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9 = 111111111111,110110111111,111110111011,1111111010111
A = 110111111111,1101111011011,11111011100111,111111001011111
B = 111101111111,110111110111,11111110010111,111010011010111
C = 110111111111,1111101011011,11111101001111,1110100111010111
D = 110111111111,1111011110111,111110101111,1111111011011
E = 111011111111,110111111011,111111101011,111111101101011
F = 111011111111,1111111011011,110111101011,111110011101111
G = 110111111111,111110110111,11111001110111,111111010011111
H = 110111111111,111101111011,111111010111,111110110010111
I = 111101111111,110111101111,1111111001011,111101011101111
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K = 110111111111,1111101011011,111101111001011,1110100110110111
L = 111111111111,110111111111,111110111111,11111110110111
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N = 111111111111,110111101111,111110111011,11111110101111
O = 110111111111,1111011111011,1111100111111,11111110101111
P = 110111111111,1111101111011,111111010111,110111101101111
Q = 110111111111,111101110111,11111001110111,111111101001111
R = 111101111111,110111101111,1111111001011,1111000101101111
S = 111101111111,1101111011011,111111110011011,11110100110101111
T = 111010111111,11111111001011,111000110110111,11011101011001111
U = 111101111111,110111110111,1111111001011,11101001110101111
V = 111011111111,1101111100111,11111110101011,11110100110110111
W = 111101111111,111111101011,11101011100111,11101001101101111
X = 110110111111,1111111001011,1110011101011011,11101010110011111
Y = 110111111111,11111011111011,1111101101111,1111110101111
Z = 110111111111,1111101110111,11111011110111,11111101110111
a = 111101111111,11011111101011,1110110001110111,1111101100010111
b = 111101101111,11011111101011,1111101100010111,11101000111001111
c = 111101101111,11011111101011,1110100011100111,11111010001010111
d = 111101111111,11011110110111,11111111001011,1111101001110111
e = 1101111110111,111011111011011,11111010011111,1101100110101111
f = 111101101111,11011111101011,1110110001110111,111101100010111
g = 1110111110111,111110011110111,11101011010100111,111010100100111111
h = 1110111101111,111110011110111,111011010100010111,111100100101010111
i = 1101111101111,111110111011011,11111010011111,111100111010111
j = 1111011011111,11011111101011,1111101100101011,111101000101010111
k = 1110111101111,11111001111011,1111101010001011,111100100101010111
l = 1111011101111,11101111010111,11101100010110111,111101001100010001111
m = 1101111110111,111110100110111,111101001110010111,111101000100101111
n = 1111011011111,111010010110111,111101101100001011,1111010001000100101111
o = 1111011011111,11011111101011,111101100010111,11101000101101111
p = 1111011011111,11011111101011,11110101100010111,11101100010101111
q = 1111011011111,111011111001011,111101010001110111,11101100100100101111
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s = 1111011011111,111010010111011,11101110100001011,11101001000101001111
t = 1111011011111,111010010110011,111011101100001011,11101001100010100111
u = 1111011011111,11011111101011,1111100111001011,1111010100011101111
v = 1110111011111,11111001101011,1111011010001011,111100100101010111
w = 1110110111111,110111101101011,111110100100011011,1111010101000001001111
x = 1111011011111,11101001011011,11101110100001011,1111010010001000101111
y = 11101101101111,111011000101011,111110010111001011,1111010100001010011111
z = 1111011101111,1110110100011011,111010001110010111,1111100001000100101111
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Bernoulli (n:4,w:15)

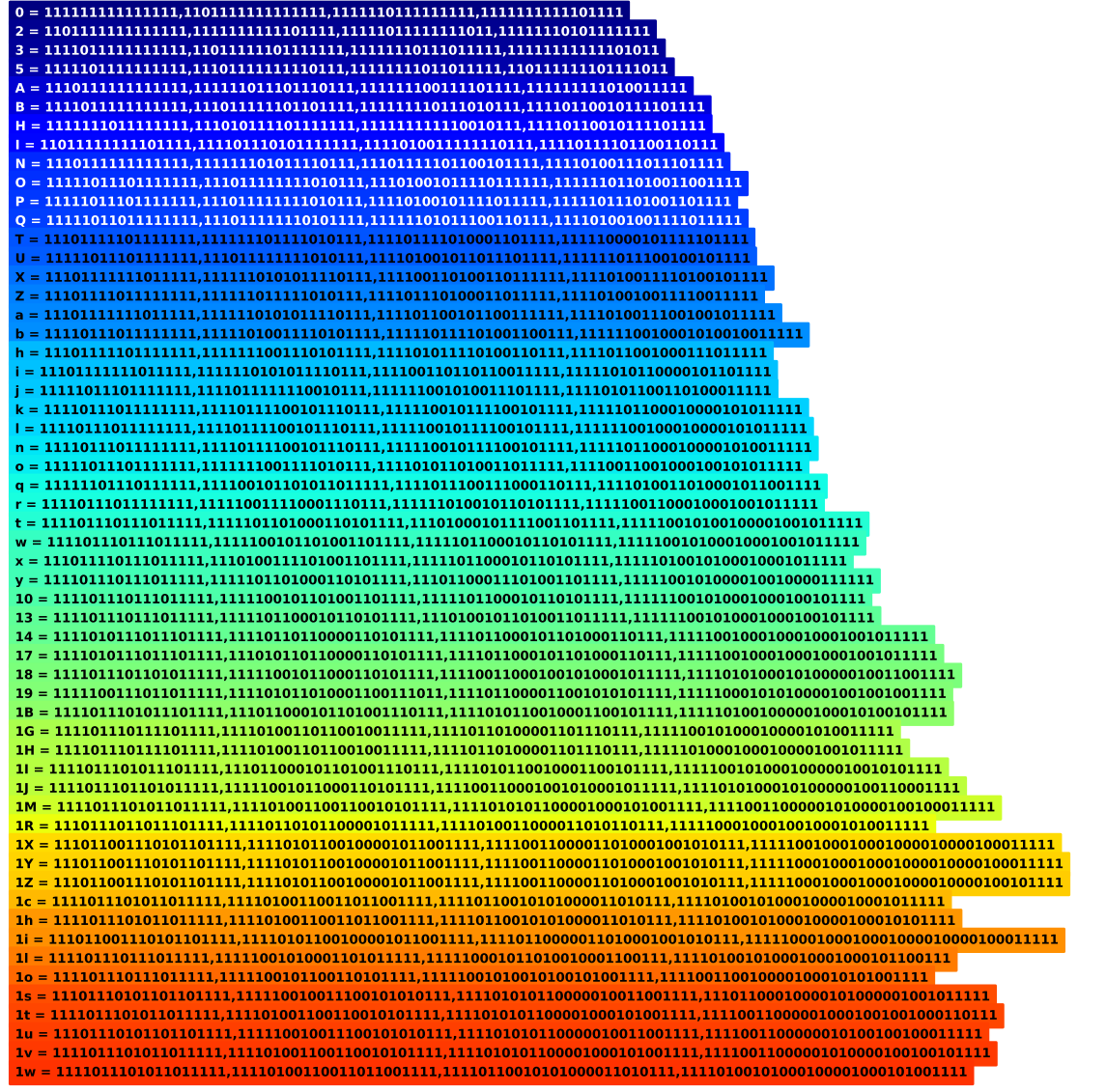
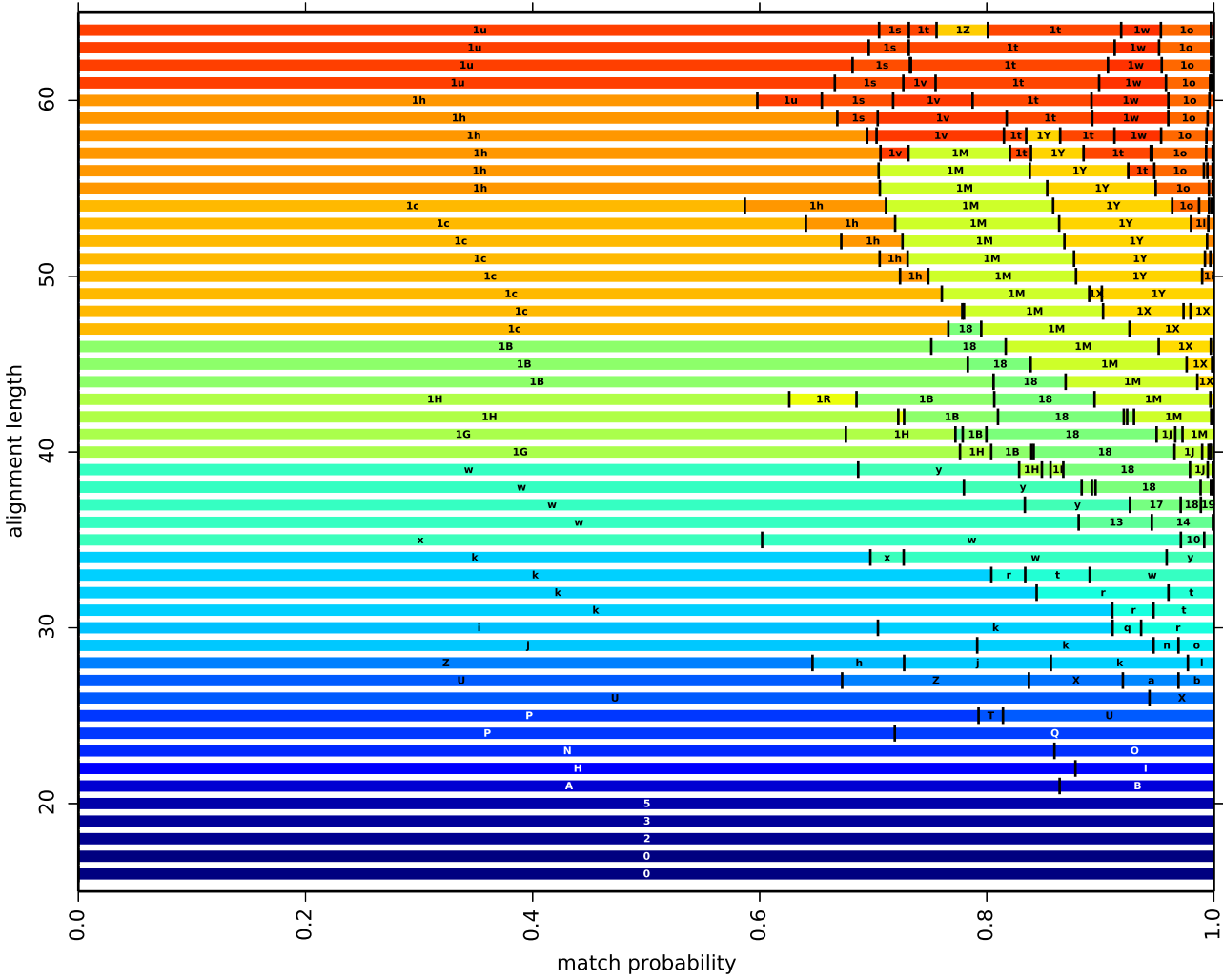


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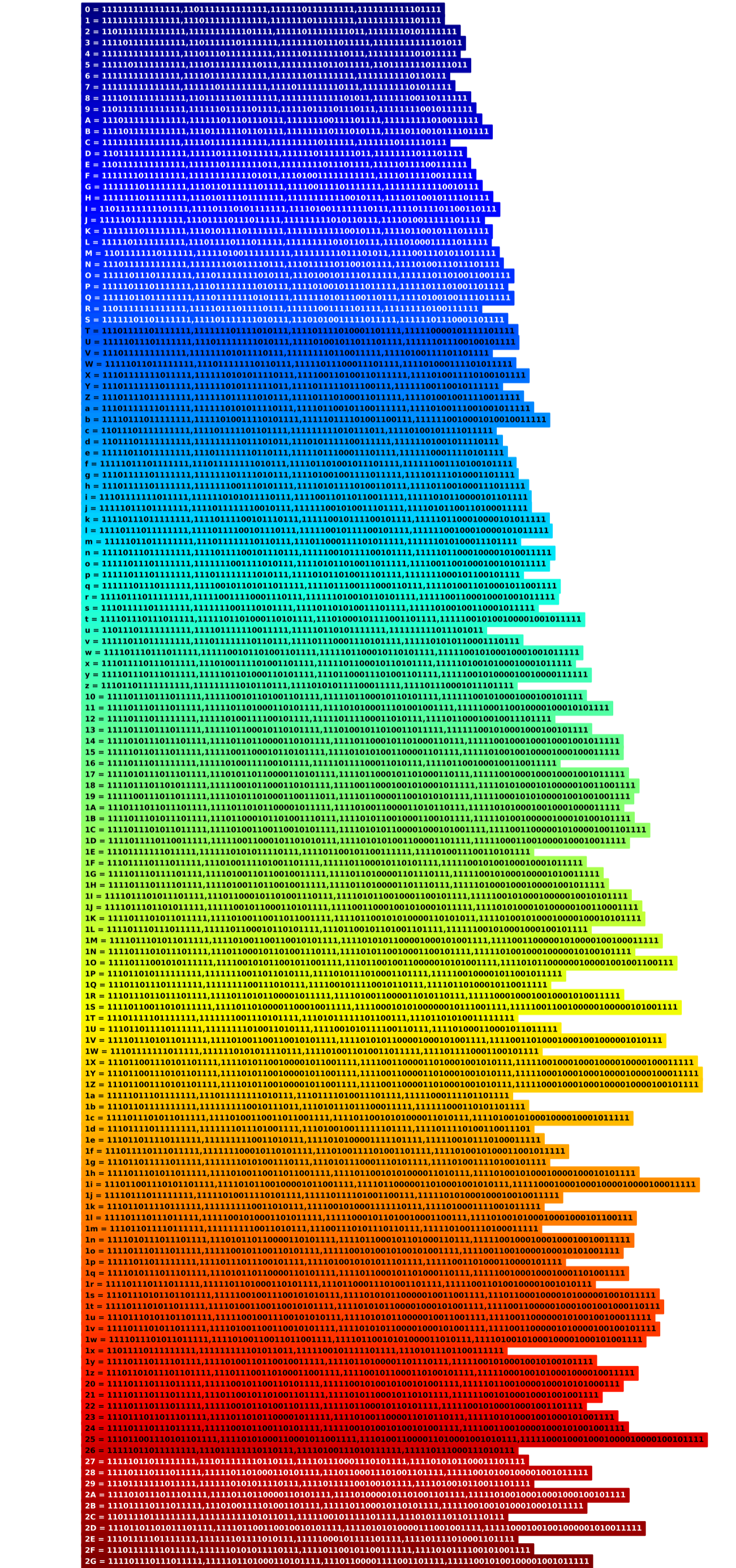
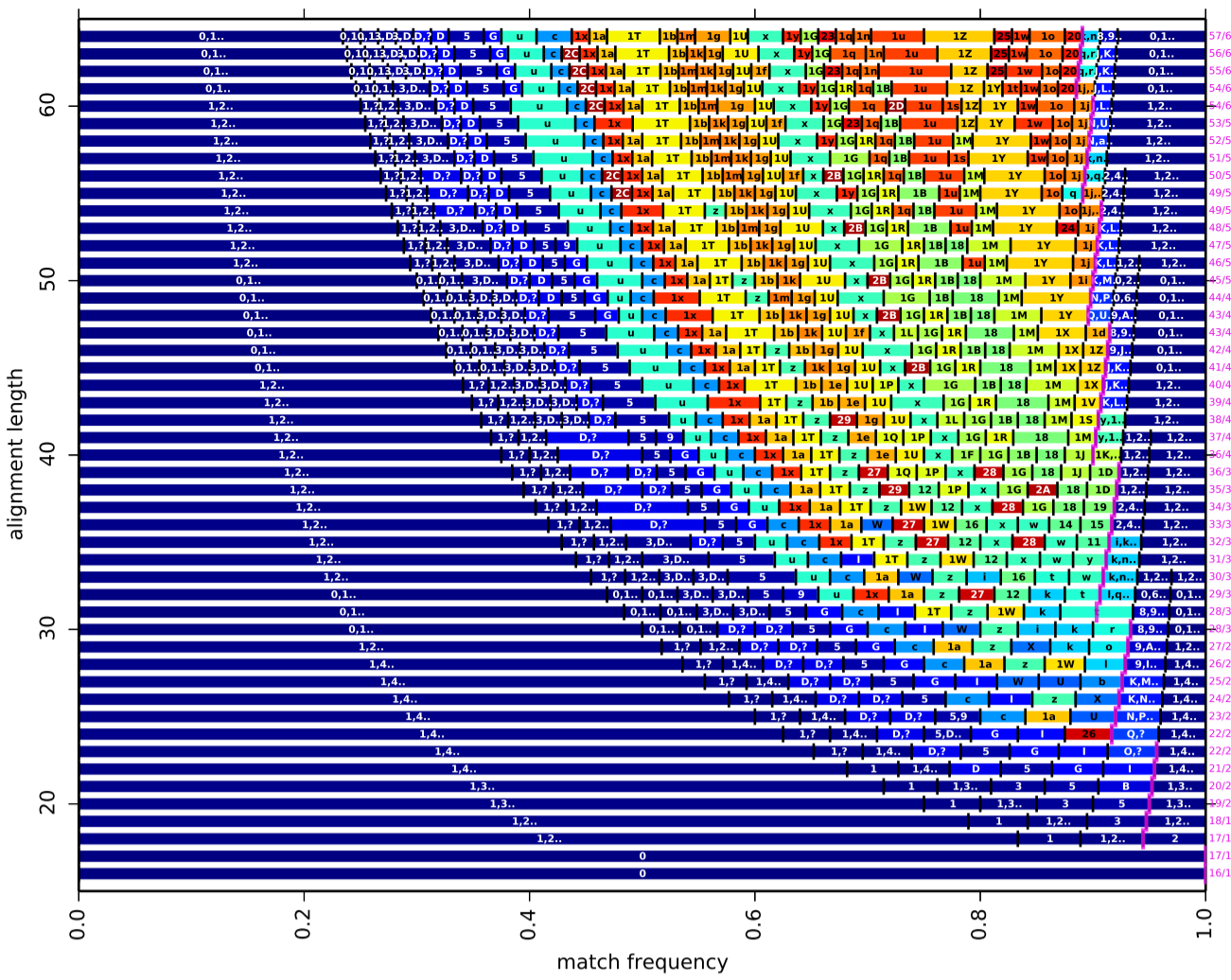
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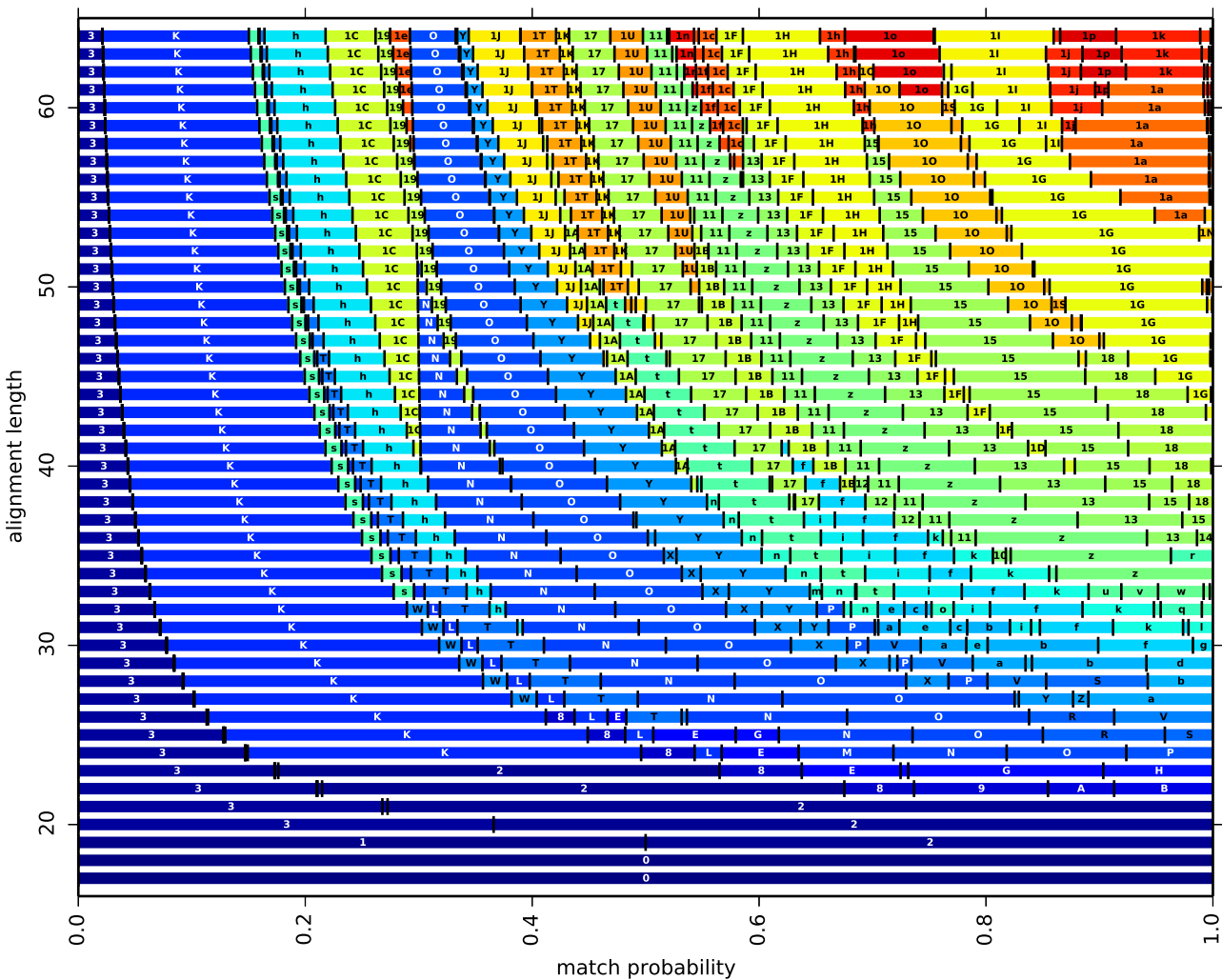

\int_x^1 Hit Integration (n:4,w:15)



Dirac (n:4,w:15)

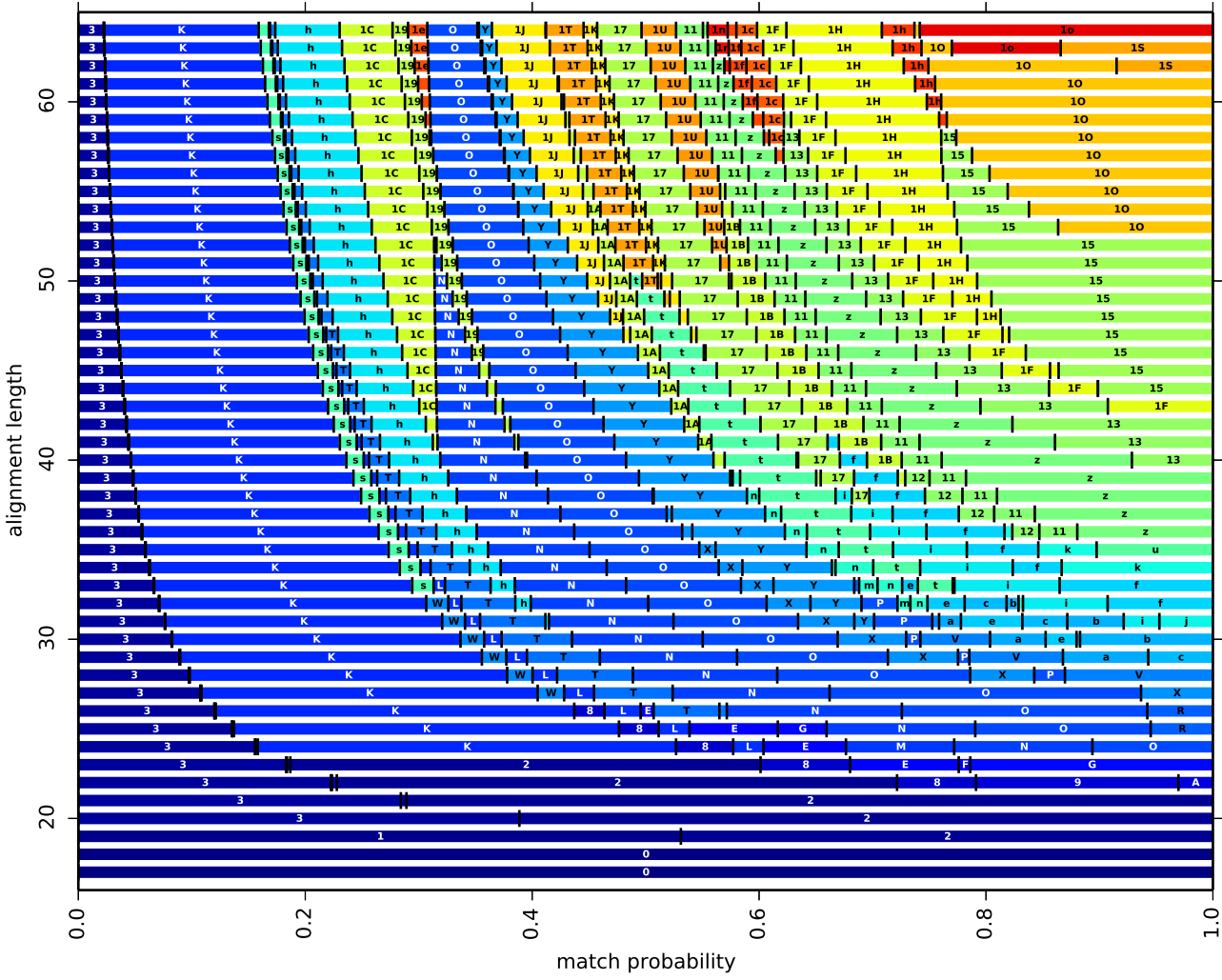


Bernoulli (n:4,w:16)



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V = 1101111111101111,1111101011011111,1111010011100101111,1111011000101101111
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v = 1111011011011111,11110100010101010111,11110111000010010111,111101010000010011101111
w = 1111011110110111,11110100010101010111,11110111000010010111,111010100100100010001001111
z = 1110111011011111,1111001100101010111,11110100010110010111,11111001010001000100011111
10 = 1110110110110111,111010010101010111,11101011100101001111,111010110001000100101111
11 = 1110110110110111,11101011100101001111,11110110010110100111,11110110001000100101111
12 = 1111011011011111,111011001110101011,1110101110010010111,1110100100010001101111
13 = 11110110110110111,111101100011010010111,1111010100001101011,111110010001000100011111
14 = 111010110110110111,11110011100010010111,11101010001110010010111,1111010010001000100101111
15 = 111010110110110111,11110011001010010111,1110110001010010010111,11111000010010001001001111
17 = 1110101110110111,111010111010100111,111011000101110111,1110110010101000101111
18 = 1110101101101111,1111010011001010111,111010010000110100010111,1110010100010001000101001111
19 = 1101101110110111,11110101111011011,11101110011010111,11101001110101111
1A = 1110101101110111,1101011110101011,111010010111001111,11110010100011010111
1B = 1111011011011111,1110111001110101011,1110101110010010111,111110010001010011010111
1C = 1101110111111111,1111001111101011,11111111101011011,111011010011011111
1D = 11101110110101111,1101111000010101010111,1110010110100011001111,111100100010000100100101111
1E = 111010110110110111,11101000101010010111,111010110001100101011,11101001000100010001001111
1G = 111100110101010111,111010101000110010111,111010100010010010001010111,111010000101000010000100101111
1H = 11101101101101111,111010001000100100111,111010001001101010111,111100010001000100101111
1I = 111010110010110111,11101000101010100010111,11100100010100001010010111,1111001010000010001000101001111
1J = 1111011011111111,11101111110100111,110111100011101011,1111010010101010111
1K = 1101111011101111,111010111001011111,111100100110101011,111011100100100100101111
1N = 1111010101101111,110101001100010101011,1110001010000101001010111,1110110010001000001000101001111
1O = 11110110110110111,1111001011001010010111,111010110001001001010111,11101100001000100010001001111
15 = 11110101110110111,1111010110100100010111,1110110001001000100111,1110010100100000100001010111
1T = 1101111110101111,111010101110110111,1110110000111010111,111100101100100111
1U = 1111010110110111,111011001110101011,1110101110010010111,11110010000101010111
1a = 1110110110110111,1111001010010100100111,111001010010001001010111,111100100100010000100010010111
1c = 1101010110110111,11100100101100101011,11110110001010010111,11110101001000100100010100011111
1e = 11110111110110111,1111011011110111,111110101110010111,11101011100101111
1f = 111010110110110111,11100100111001010111,11110110001010010111,111010100010010010010111
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1j = 111011010110110111,11110010001000100010010111,111100100010001000100010111,111000100010000010001001001111
1k = 11101101101101111,1111001010010100100111,11100101001000100010101011,1111001000100010001000100010111
1l = 111010110110110111,111010001010001000111,111010100010001010111,11101010010001000100010111
1o = 1110101010110111,111010001010001000111,11101011001000100101011,1111001010001010000100010111
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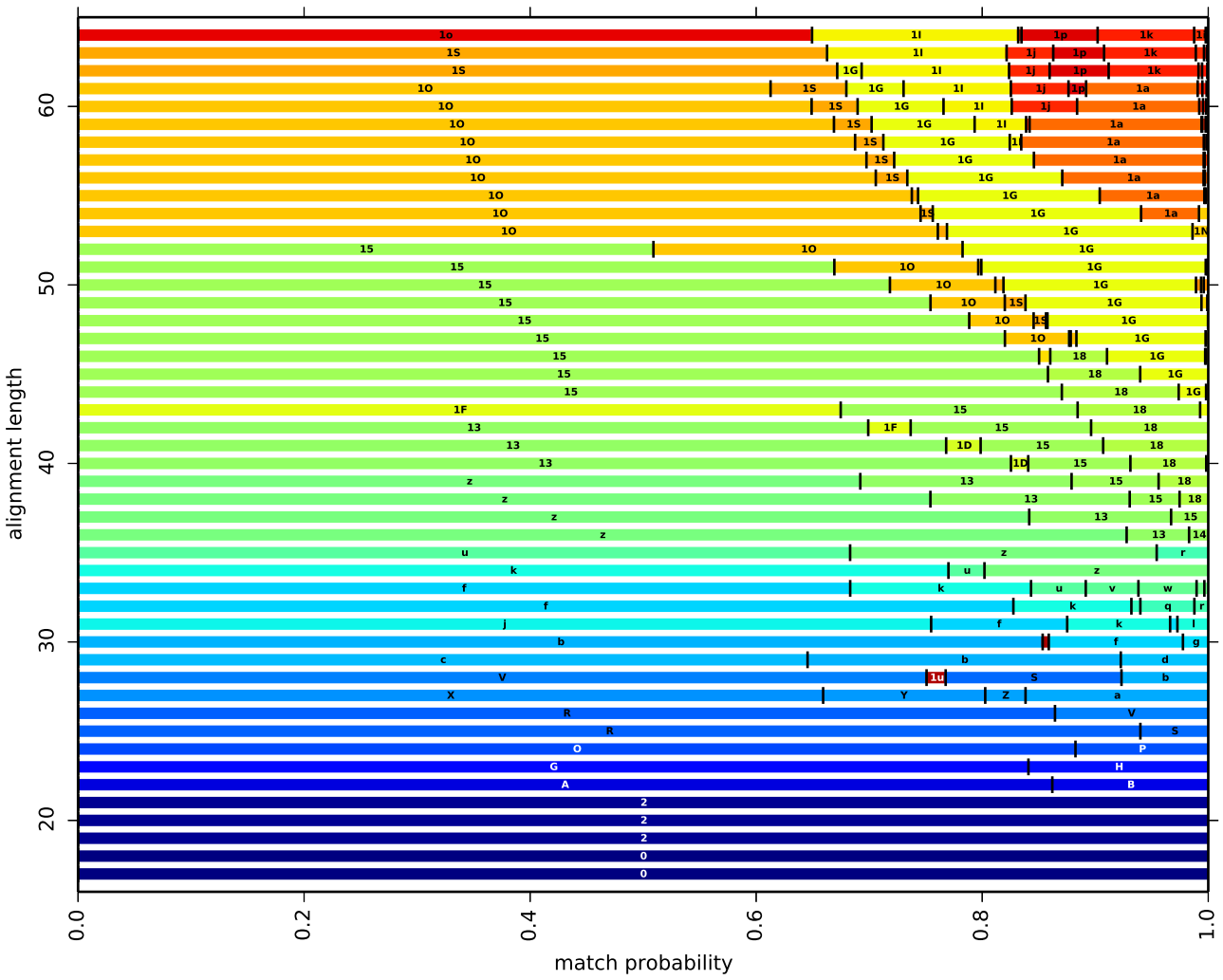
\int_0^x Hit Integration (n:4,w:16)



match probability

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2 =	1101111111111111,111110111111101111,1111111010111111,111111111111011011
3 =	1111111111111111,1111011111111111,1111111101111111,1111111111110111
8 =	1101111111111111,111110111111011111,1111111010111111,11111111111100101111
9 =	1110111111111111,1111111011011111,111111101110111011,111111101111001111
A =	1111111011111111,110111011111011111,111100111101111111,11111111111100101111
E =	1111111101111111,111010011111111111,11110111111101101111,111111101110101111
F =	1111011111111111,111111011101101111,111111101011101111,11101101111110101111
G =	1111111011111111,111010111101111111,11111111111100101111,11110110010111101111
K =	1101111111111111,111101111111011111,111111101110111111,111111111011110111
L =	1101111111111111,1111111011011111,111110101111101111,11111110111011101111
M =	1111111011111111,111010111101111111,11111111111100101111,11111011001011011111
N =	111011111111011111,111111001111011111,11111110101111110111,1111101110110010111111
O =	111110111011111111,111011111111011011,11111101001111011111,11111011110001101111
P =	1111101111111111,111011111111011011,11111010010110101111,1111101111000110101111
R =	111101111111011111,11111111010111101111,1111011111011001011111,11110100011111101111
T =	1110111111111111,111111011101110111,111111001111101111,11111111101001111111
V =	110111111111011111,111111010110111111,1111101001111001011111,1111101110001011101111
W =	1111011111111111,110111111111101111,1111111010111111,11111110111100111111
X =	111110111011111111,11101111111110110111,1111101111000111011111,1111101001011010111111
Y =	1110111111111111,11111101111101101111,11110100101111010111,1111101110100011101111
a =	1110111101111111,111111101110110111,11111011000101101111,111101001111100101011111
b =	111101111111011111,11111110100111011111,11110100011011101111,111110111010010001011111
c =	1111110110111111,111101111111011011,1111101011000011011111,11111011000110101011111
e =	1110111011111111,111111101101011011,11101101000111101111,111111001110010010111111
f =	111011011111011111,11111101110101101111,111101001001111010111,111110100110000101001011111
h =	110111111111011111,111100111110111111,111111010011111111,11111101111101101111
i =	111011111111011111,111111001011101111,1111010111001101011111,11111011000101000110111111
j =	111101111111011111,11111110100111101111,1111011101110001011111,11111010010001011001111111
k =	111110111011011111,111111100111101010111,111101011110010001011111,1111110100000101100111011111
m =	111101101111111111,1110111111101101111,11110111000111010111,111110101011000011011111
n =	111011111110111111,1111110100111101111,1111011111011000101111,111111000101001111011111
s =	1110111111111111,111111111111011111,111111101111110111,11111111110011011111
t =	1111011111111111,11101111111101101111,11110110011110011111,111110100111001011011111
u =	111101111011111111,11110101111101101111,111101100101110101111,11111101010100001010111111
z =	111101111011111111,11111001110010110101111,111110100010110010101111,1111110010101000101000111111
11 =	111101101111011111,1111010111100101001111,1111101100101101100111,1111101100010001001010111111
12 =	111110110111011111,1111011100111101010111,1111010111100100101111,11110110010001000110111111
13 =	111101101101101111,11110111000111010010111,11111010110100001101111,111111001001000010100111111
15 =	111101101110110111,111100101110010100101111,11110111000101001100101111,11111100001001000100010100111111
17 =	111011011111011111,11110101111011001111,111101110001011110111,111101100101000110111111
19 =	111101111111011111,11111111001111110111,11111111100111011111,1111110100110101111111
1A =	1111011101111111,111011111110110111,1111010010111110011111,111111001101000110111111
1B =	111110110111011111,1111011100111101010111,1111010111001001011111,11111100100100101101011111
1C =	1101111011111111,111110011111101111,1111111111010111011,1111011011001010111111
1F =	111101110110110111,1111101001010100101111,111011001110001110010111,111110100100010010001000111111
1H =	111101110110110111,11110101100101001001111,111011000101001101010111,111110001100010010001001011111
1J =	1111011101111111,1111011111110100111,1110111110001101010111,1111101001010101011111
1K =	111101110111110111,111101011111001011111,11110011000111011010111,111011110010010100111111
1O =	111101101110110111,111110010111001010010111,1110101110001001001001010111,111101100001001000100010100111111
1S =	111101101110110111,111101011101001001001111,11110110001001010100011001111,11100101001100000101000101011111
1T =	110111111101101111,11111010101111110111,11110110000111010111,111110011111001100111111
1U =	111110110111011111,111101110011101010111,1111010111100100101111,11111001000101110010101111
1C =	1111011011110111,11110010111001010111,1111101110001010010111,111110110010001001000100111111
1e =	1101111111101111,1111100110111111011,11111111010111001111,11110101111001011111
1f =	111101101110110111,11111001001111001010111,1111101100010100101111,1111010100100010011001011111
1h =	111101101101101111,111101001111010001111,111010111010000101010111,11111001010001001000101011111
1n =	111101101110110111,1111101001110010100111,1111011100010100101111,11110101001000100100101011111
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\int_x^1 Hit Integration (n:4,w:16)

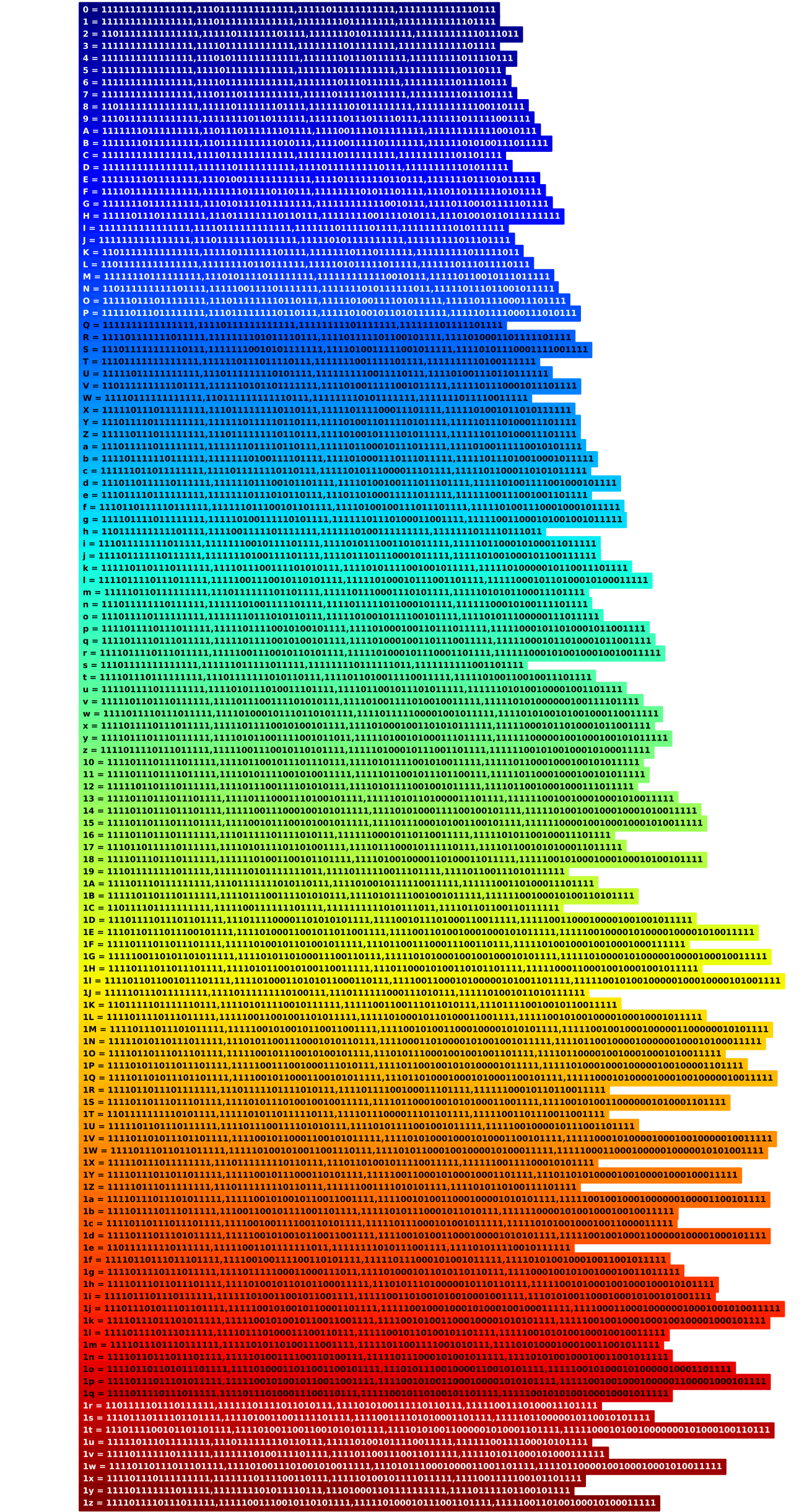
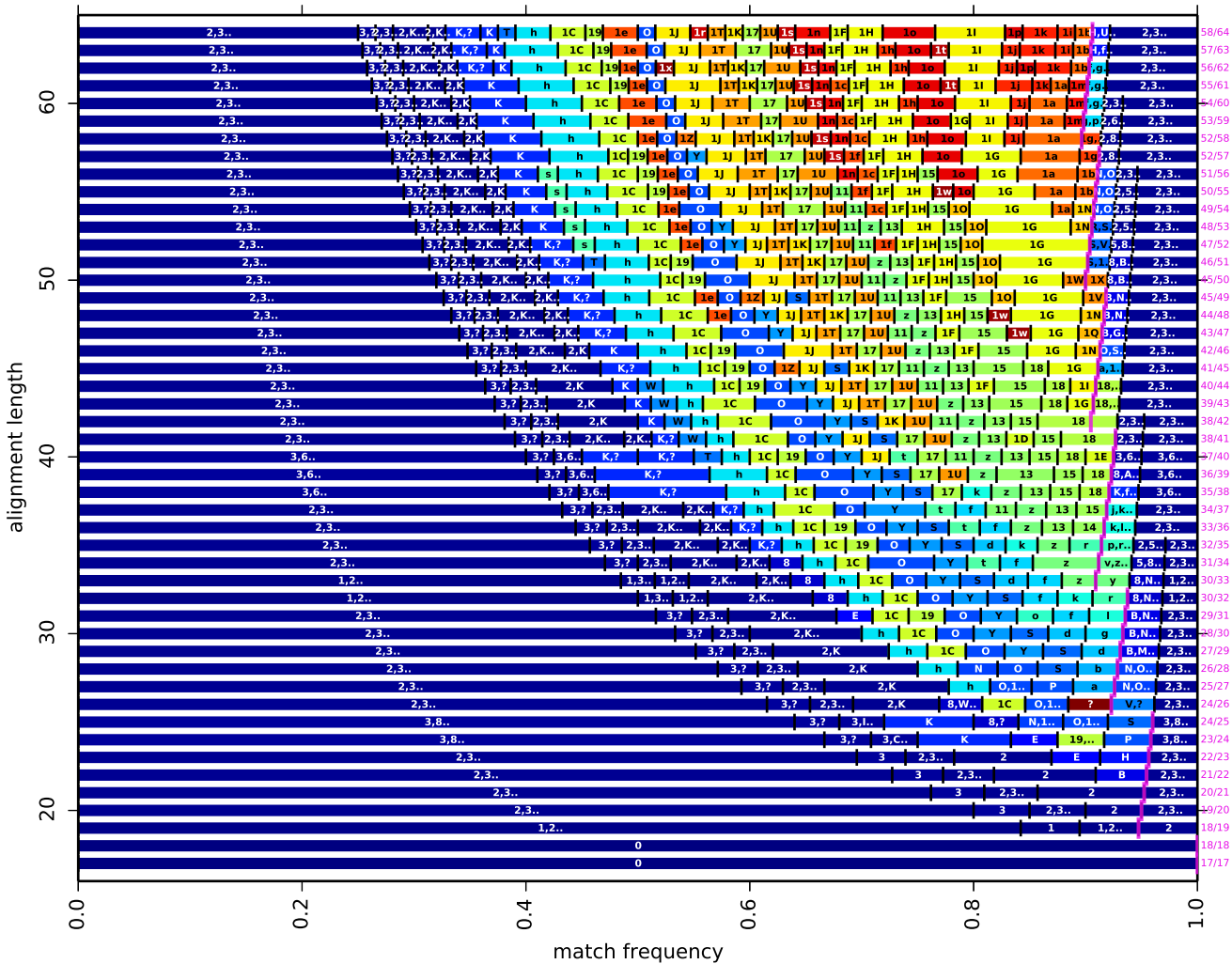


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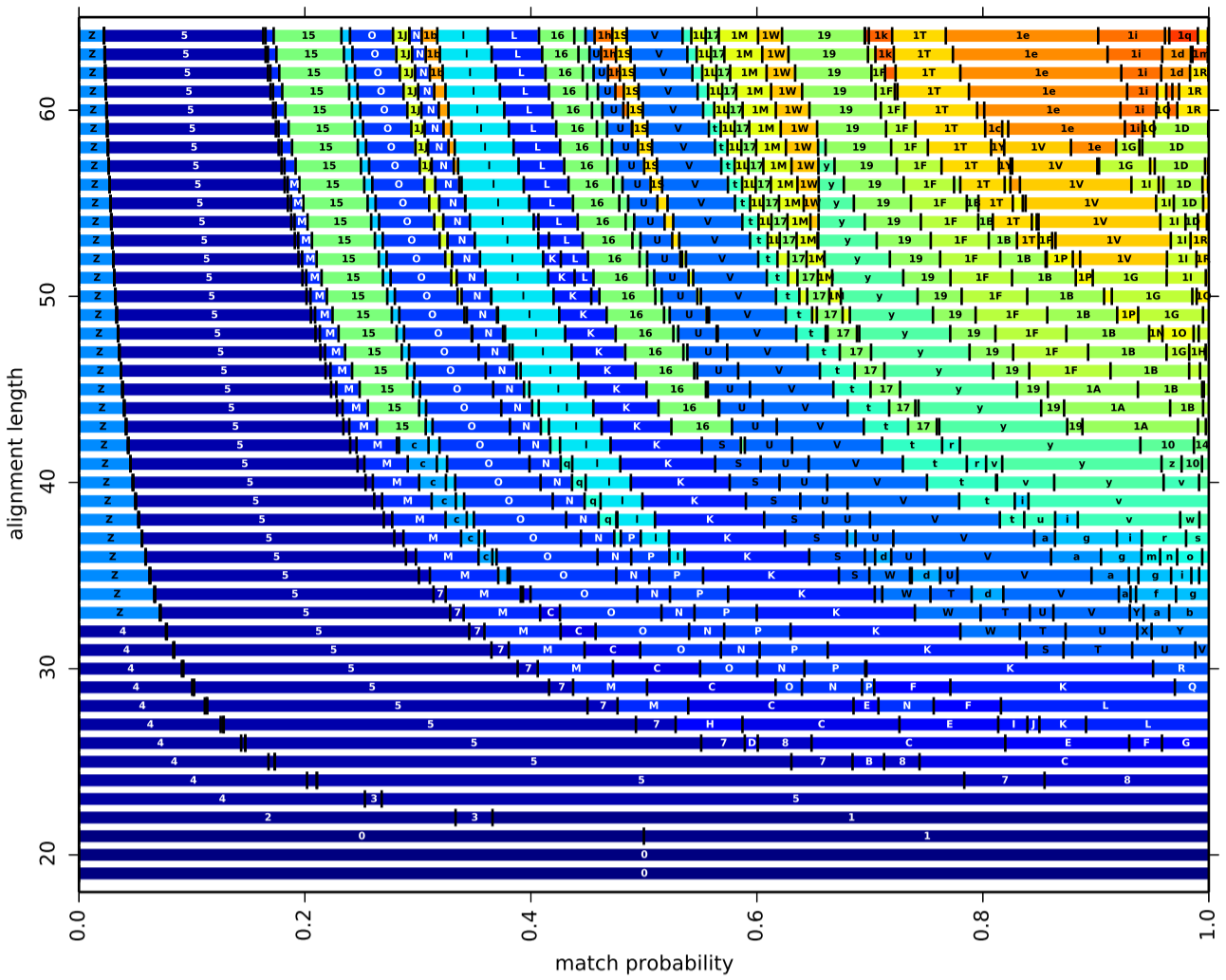
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A = 1111110111111111,110110111111101111,111100111101111111,111111111110010111
B = 1111110111111111,110111111111010111,111100111101111111,11111101000111011111
G = 1111110111111111,110101111110111111,111111111110010111,11110100101111011111
H = 1111101110111111,11011111110110111,1111111001111010111,11101001011011111111
O = 1111011101111111,11011111110110111,11111010011110101111,1111101111000111011111
P = 1111011101111111,11011111110110111,11111010010110101111,1111101111000111010111
R = 1111011111101111,111111101011110111,11110111110110010111,1111010001101111011111
S = 1110111111110111,111111001010111111,11110100111100101111,1111010111000111001111
V = 1101111111101111,11111101100101111111,11110100111100101111,1111101110001011101111
X = 1111011101111111,11011111110110111,11110111100011101111,11111010010110101111
Y = 1110111101111111,111110111110110111,1111010011011110101111,1111101110100010111111
Z = 1111011101111111,11011111110110111,111101001011110101111,1111110110100011101111
a = 1110111110111111,111111011110110111,1111101100010111011111,1111010011110010101111
b = 1111011110111111,1111110100111101111,11110100011011101111,1111101110010001011111
c = 1111101101111111,111101111110110111,1111010111000011101111,1111101100011010101111
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f = 1110110111101111,11111101110010110111,11110100100110110111,11111010011100010001011111
g = 1111011110111111,1111101001111010111,111110111010001100111,111110011000101001001011111
j = 1111011111011111,111111010011110111,111101110111000101111,111110100100010110011111
k = 1111101101110111,11110111001110101011,111101011100100101111,1111101000010110011101111
l = 1111011110111011,1111100111001011010111,11111010001011100110111,1111100010110100010100011111
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n = 1111011110111011,111110011100101010111,111110100010111000110111,111110010100100010100011111
o = 111101101110111011,11110111000111010010111,11111010110000100101111,1111010100101001000110011111
p = 1111011101110111,1111110011100101010111,1111101011000011010111,11111100100100010001010011111
q = 1111011110111011,1111110111001010010111,11111010010010010010111,111110010100100010001010011111
r = 1111011110111011,1111110011100101010111,111110100010111000110111,1111110001010001000100011111
s = 1111011101111111,1111101011101001110111,11110110010111010111,11111010100100010010110111
t = 1111011101110111,11111001011101010111,111110100111010010111,111110101000001001110111
u = 1111011101110111,11111001011101010111,111110100111010010111,111110101000001001110111
v = 1111011101110111,11111001011101010111,111110100111010010111,111110101000001001110111
w = 1111011101110111,1111100001011101010111,111101111000010010111,1111010100101001000110011111
z = 1111011101110111,111110011100101010111,11111010001011100110111,11111100101001000101001111
13 = 1111011011101110111,11110111000111010010111,11111010110100001110111,11111100100100010001010011111
14 = 11111011101110111,11111001110001001010111,111101100011110010010111,111111010010010001010011111
15 = 1111011011101110111,11111001011100100010111,11110110001010010010111,11111000010010001010011111
18 = 11110111011101111,1111101001100101010111,11110100001101000110111,1111100101000100010001010011111
19 = 11101111011101111,1101111100001101010111,11110010110100011001111,1111100100010001001010011111
1F = 1111011101110111,1111101001011010010111,1111011001110001110011011,111110100100010010001000111111
1G = 11110011010110101111,111101011010001110010111,111110100010010010001010111,1111101000010100001000010011111
1I = 1111011001011010111,111101000101010100010111,11110011000101000001010010111,111110010100000100000100011111
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1O = 1111011011101110111,111110010111001010010111,1110101100010010010010111,11110110000100100010001010011111
1S = 1111011011101110111,1111100101110010010111,11110110001001010001100111,111100100110000001010001101111
1a = 11110111011101111,1111101001010011001100111,111100101001100010000101010111,1111100100100010000010001010011111
1i = 11110111011101111,111111010010010100111,1111001101001010010010111,1110101001100010001010010011111
1j = 11110111011101111,11110010100101000110111,1111001000100010100010001111,1111000110001000000100010010011111
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1o = 1111011011101110111,1111010001010001000111,11101011001000011001010111,111110010000100000010001101111
1p = 11110111011101111,111110010100101001100111,111100101001100010000101010111,11111001001000100000110000100011111
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Dirac (n:4,w:16)

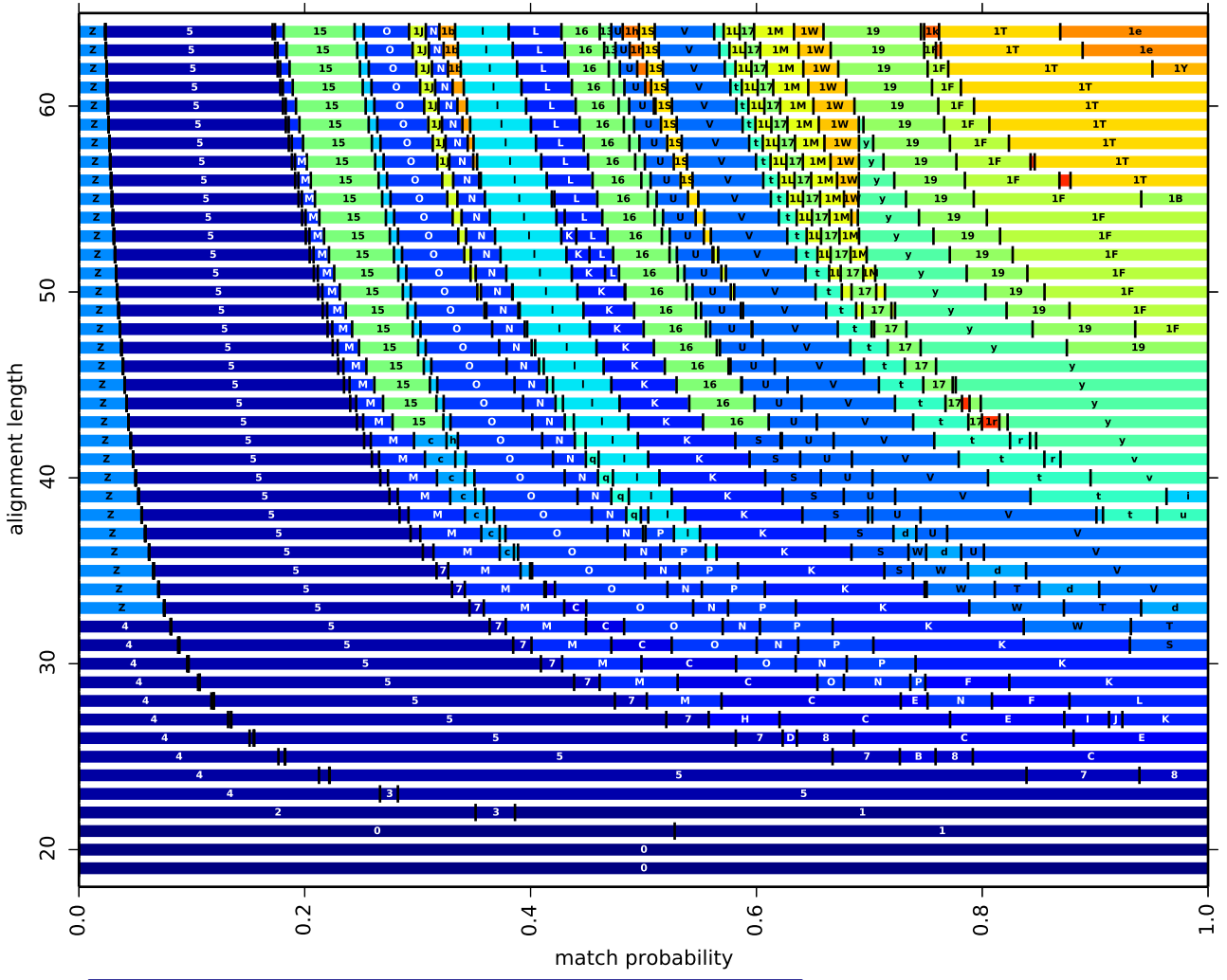


Bernoulli (n:4,w:18)



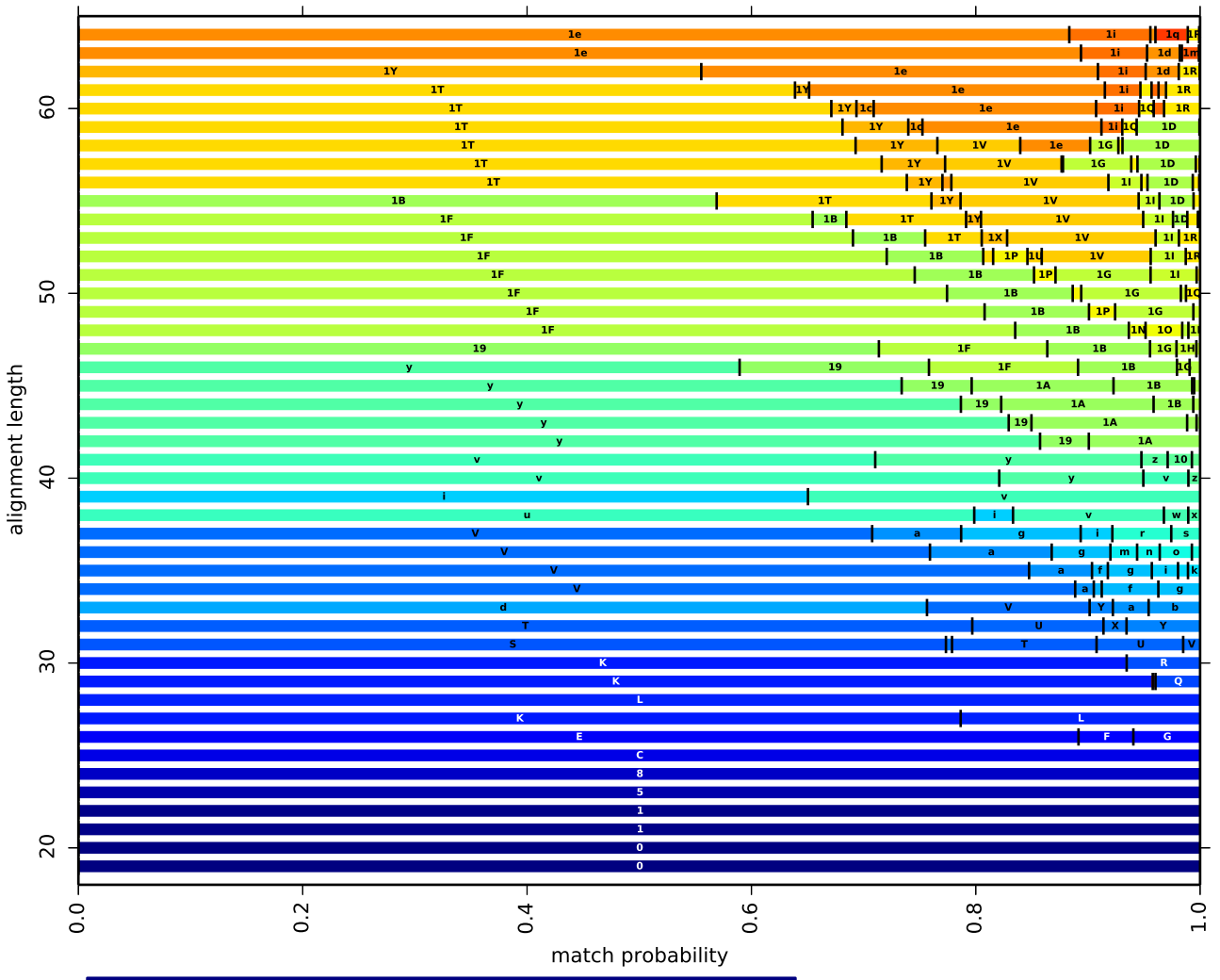
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5 = 111011111111111111,111110111011111111,111111110111101111,11111111111101110111
7 = 111011111111111111,111110111011111111,111111101111011111,1111111111110011011111
8 = 111011111111111111,111110011011111111,111111101111010111,1111111111011011011111
B = 111101111111111111,111111101110111111,111011111111011011,11111110111101101111
C = 111011111111111111,111111011110110111,111111110010111111,1111010011101101111111
D = 111011111111111111,111111101101111111,11111100111111011111,1111111111110011011111
E = 111101111111111111,111111101111110111,111111111110101011,1111100011011011011111
F = 111101111111111111,111111101111010111,11100100111011101111,1110111101010011011111
G = 111101111111111111,111111101111010011,11100100111011101111,1110111101010011011111
H = 111011111111111111,111111011001111111,111111101111011011,11111111111101011011
I = 111101111111111111,111111101101101011,11110110111110010111,11111001101011110111
J = 111101111111111111,111111011001111111,11101111100111110011,11110100111110011111
K = 111101111011111111,111111101101010111,1110111010001111011111,1111010011111010011111
L = 111011111011111111,11111111011111001011,111101000101111101111,1111011111010001101111
M = 111011111111111111,111111011011111111,111111101110111011,111111111110100111111
N = 111101111101111111,11111110111110010111,11111110100110111111,1111001101110111011111
O = 111101111111111111,111111101111010111,111111111110101011,1111101011001011111111
P = 111011111111101111,11110111100111110111,11111110110011111111,11111010011111001011111
Q = 111101111111101111,111110100110101111,1111011011001110110111,111110011011110010011111
R = 111111011111111111,111101111110100111,111101100110110110111,1111010010011101111111
S = 111011111110111111,1111111011110010111,1111000111010101110111,11111100100110110101111
T = 111110110111111111,1111111011011010111,11110101001001111011111,111101101101100101111111
U = 111101101110111111,11111111001110101011,111101010011101101001111,111101011010010011101111
V = 111011101111011111,1111010111010011010111,1111011110001000110111,11111010000111101001101111
W = 111111011111111111,1111101111110100111,1111011100110010110111,1111100100101111011111
X = 111101110111011111,111111101100011010111,1111001010001110110111,11111010010111001001101111
Y = 111011110111111111,111110111101100011010111,11110011100010110110111,11111010000111101001101111
Z = 111111111111111111,111101111111111111,111111111011111111,111111111111011111
a = 11110111011101111111,111111101110100011010111,11111001101000101101101111,111110100001111101001101111
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c = 110101111111111111,11111100110111111111,111111101110110110111,1111111110101110111111
d = 111101111011111111,11111011101110100111,1111100110110010110111,11110110100101011100111111
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g = 111101110111011111,1111101011101001100111,111101100100011101101111,111110100101001100011001101111
i = 111101101101111111,11111010111010010100111,111101100100011010101111,1111101001010011000101011111
l = 111011111011111111,1111111011110010111,1111010010111101111,1110101111101011001111
m = 111110111011011111,1111010011001101101111,1111011011111000111011,1111110011000100101001011111
n = 111101111011011111,1111101110110011010111,11110110010001101101111,1111001001011001100010101111
o = 111101101101101111,11110101111010010100111,111101100100011101010111,11111001001101001100010101111
q = 111011111111011111,111110101101111111,111101111001111010111,1111101001111001011111
r = 111101101101101111,111100101101101100111,1111011011100011001010111,11111001010001001000110011111
s = 111101101101111111,111101101110001110010111,11110110010110001110111,111111001100010001000100101111
t = 111101110111011111,1111101110110011010111,111101001100010110110111,111110100001110100101111
u = 111011110110111111,111110010010111010111,111100111010101001010111,111101010100000110100101111
v = 111011011101111111,11111011100101100010111,1111010001011001010111,1111100101000101001010011111
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y = 111101101101101111,1111100101101101100111,11110110001010100101111,11111100101000100010001001011111
z = 111101101011011111,111100110010111010111,11110101010110001110111,111111001010001000100010011111
10 = 111011011011011111,111101011001001101001111,11110110001110101000110111,11111001010001000100010011111
14 = 111101101101101111,11110101001001100101111,111110001110101000110111,11111001100010001000100101111
15 = 110101111111111111,1111101111011111011,111111101111010111,111111110010111111
16 = 111011011111101111,111111101101011110111,111101011001101101111,111111100010111001101111
17 = 111101101101101111,1111001011100011010111,1111011011000110100101111,1111101100010100100010101111
19 = 111011011011011111,111010110100100110100111,11110110001110101000110111,111110010100010001000100011111
1A = 111101101101101111,1111010001101000110111,111100110100100110100111,1111100101000100010001000111111
1B = 11110110110110101111,111100111010001101010111,111101100001010011000110111,11111001010001001000101000011111
1D = 111011101101101111,1111100110011001010111,111101100010101001000110001111,1111000101000010001001001011111
1F = 111101101011011111,111101011010010101001111,1111011000101010001010111,111110010100010001000100101111
1G = 111101101101101111,111101010011001011111,1111000110100101000101001111,11111011000010001000100010101111
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1I = 11110100111010101111,111101010101001100101111,111101011000011000010010111,111110100010001000100100000111111
1J = 111111011101111111,111101011111011111,111011111011100111,11110110100101111111
1L = 111101101101101111,11110101111001110001111,111101111001011010010111,11110100010011001011001111
1M = 111011101110110111,111101100100110111010111,11110011101010100011011,111110101010000101001001011111
1N = 111101110110110111,111100101001111000110111,11111011000101000100110001111,1111100011001000010100001001011111
1O = 111011011011011111,111100101110001100101111,1111011010001100100011001111,11111010100010000010001000111111
1P = 111101101101101111,11111001100010001001111,111101101000100010001001111,11111001000100100001000100011111
1Q = 111101101101101111,11111001100010001001111,111100110100010001001111,11111001000100100001000100011111
1R = 111101111011011111,11111010100110010101111,111100101010010001011001111,11111000101000011000100010011111
1S = 1110101111101110111,11111110010110101111,11110111100100110111,11110110010001111100101111
1T = 111101101101101111,1111010011010001010111,11110110100001011001001111,11111000100001001000100101111
1V = 11110110011101101111,111110010101001101001111,1111101001001000100010001111,111110100100001000010001010111
1W = 111101101101101111,1111001011010101100111,1111011011000101010111,1111100101000101000100100101111
1Y = 11110111011101101111,11111010011010001101001111,11111010010100010001001111,11111010000110001000100100011111
1b = 101110110111111111,11110111110100111111,1111110111011010111,1111011010011110111111
1c = 111101101101101111,11110010100111000101111,111101101001000100010001111,1111100011001000101000010010101111
1d = 111110111011011111,111101011001001000101111,111100101001001010010111,11111000101000100010001001001111
1e = 111101101101101111,1111100101100011000101111,1111001100100001010001001111,1111100010000100100010001010011111
1h = 11101011111011110111,11111110010110101111,111101100010111110100111,111110101110010001101111
1i = 11110111011101101111,111110011010001101001111,1111011001011000100010001111,111110010100011000100100100011111
1k = 111101101101101111,111101001101100001010111,1111011010000101001001111,111110001000010001000100101111
1m = 111101111011011111,111110100110011010001111,1111010011000010101001111,111100101000010001000100101111
1q = 111101111011101111,11111010011001100101111,1111001010010010101001111,111110100100001100010001001001111

\int_0^x Hit Integration (n:4,w:18)



0 = 111111111111111111,110011111111111111,1111110111111111,1111111111110111
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3 = 111111111111111111,111101111111111111,111111111101111111,111111110111110111
4 = 111111111111111111,111101111111111111,111111110111111111,111111111111011111
5 = 111011111111111111,11111011110111111111,11111111011111011111,1111111111110111011
7 = 111011111111111111,11111011111111111111,11111111011111011111,11111111111100110111
8 = 111011111111111111,11111001110111111111,11111110111110101111,11111111110110110111
B = 111101111111111111,11111110110111111111,11101111111110110111,11111110111101011111
C = 111011111111111111,11111101111110110111,11111111001011111111,11110100111011011111
D = 111011111111111111,11111110110111111111,11111100111111011111,11111111111100110111
E = 111010111111111111,11111110101111101111,11111111111010110111,11110001110101101111
F = 111101111101111111,1111111101111010111,1111001001110111011111,1111011110101001101111
H = 111101111111111111,11111011001111111111,11111111011101101111,1111111111101011011
I = 111101111111111111,1111111101101101111,1111011011111100101111,1111110011101011110111
J = 111011111111101111,1111111010110011111111,1111011110011111001111,1111101001111100101111
K = 111101111101111111,11111111100111010111,1110111010001111011111,1111010011111010011111
L = 111011011101111111,111111110111110010111,111101000101111101111,1111011111010001101111
M = 111011111111111111,11111101101111101111,11111110111011110111,11111111111010011111
N = 111101111101111111,111111101111110010111,11111110100101111111,1111001101110111011111
O = 111010111111111111,11111111010111101111,111111111111010110111,111110101100101111111
P = 111101111111101111,11110111100111110111,1111111010110011111111,11111010011111001011111
S = 111011111101111111,11111111011110010111,111100011110101011101111,111111100100110110101111
T = 111101110111111111,111111110111011010111,11110101001001111011111,111101101110100011011111
U = 111101101101111111,1111111110011101010111,111101010011110110001111,11110101101000111101111
V = 111011101110111111,111101011101100111010111,111101111000101001101111,11111010000111101001101111
W = 111111101110111111,11111011110110011111,111101111001100101110111,11111001010010111011111
Z = 111111111111111111,111101111111111111,111111110111111111,111111111111011111
c = 110101111111111111,11111100110111111111,11111111011110110111,11111111101011101111
d = 111101111111111111,11111011111010101111,11111100110100101101111,111101100101011100111111
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i = 11110110110111011111,11111010111010011001111,11110110010001110110101111,1111101010011001100010101111
l = 111011111110111111,11111111111100101111,1111101001011111011111,111010111110101110011111
q = 111011111111101111,11111110110111111111,1111011111001111010111,11111010011111001011111
r = 11110110110111011111,11111001011010111001111,1111011101100011001010111,111111010100010010001100111111
t = 11101111011110111111,111111011101100011010111,11110100110100010101101111,1111110100001110101001011111
u = 11101111011101111111,111111001001111010111,111110011110101001010111,11110110101000001010011011111
v = 11110111110101111111,111111011100101100010111,111101000101110011010111,111110010100010001001100111111
y = 11110110110110111111,11111001010101011001111,111101100010101001011111,11111100101000100100011001011111
13 = 11101101111111011111,111111111100101010111,11110101000111110101111,11110100111101001011111
15 = 111010111111111111,11111101111011111011,11111111011110101111,11111111001011111111
16 = 111011011111101111,1111111010101011101111,1111010111001011011111,111111110001011100101111
17 = 11110111011011111111,111110010111000110101111,111101101000110100101111,1111101100010100100010101111
19 = 11110111011011101111,111101011010010011101001111,111101100011101010001101111,11111100101000100100010100101111
1B = 1111011101101110101111,11111001110100001101010111,111101100010100110001101111,11111101000100010001010000111111
1F = 11110111011011101111,111101101001001101001111,111101100011010001010111,111111001010001000100010111111
1J = 111111011101111111,11110101111110111111,1110111111011100111,11110110100101111111
1L = 11110110111011101111,111101011110011100011111,111101110010101001010111,1111010100010011001010011111
1M = 11101110111101101111,111101100100110111010111,1111001111010101000110111,111101010100001010010011011111
1S = 11101011111101110111,1111111001011010111111,111110101111001000110111,11110110010001111100101111
1T = 1111011101101101101111,111110010110100010101111,1111010001011001001111,1111110001010001001001001011111
1W = 1111011101101101101111,11111001010101011001111,11110111011000101001010111,11111100101000100100011001011111
1Y = 11110111011101101111,1111010010101001010011111,11110101001010001000100011001111,11110101000110001000100100011111
1b = 10111011011111111111,1111011111101001111111,11111101110111010111,1111011010011110111111
1e = 1111011011011101101111,1111100101110001001001011111,11110011100100001010100011001111,11111100010000100100010001010011111
1h = 1111011111101111101111,11111110010101011111,111101100010111101001111,1111010111100100011101111
1k = 1111011101101101101111,111101001101011000010101111,1111010101000010110011001111,11111000101000100010001001011111
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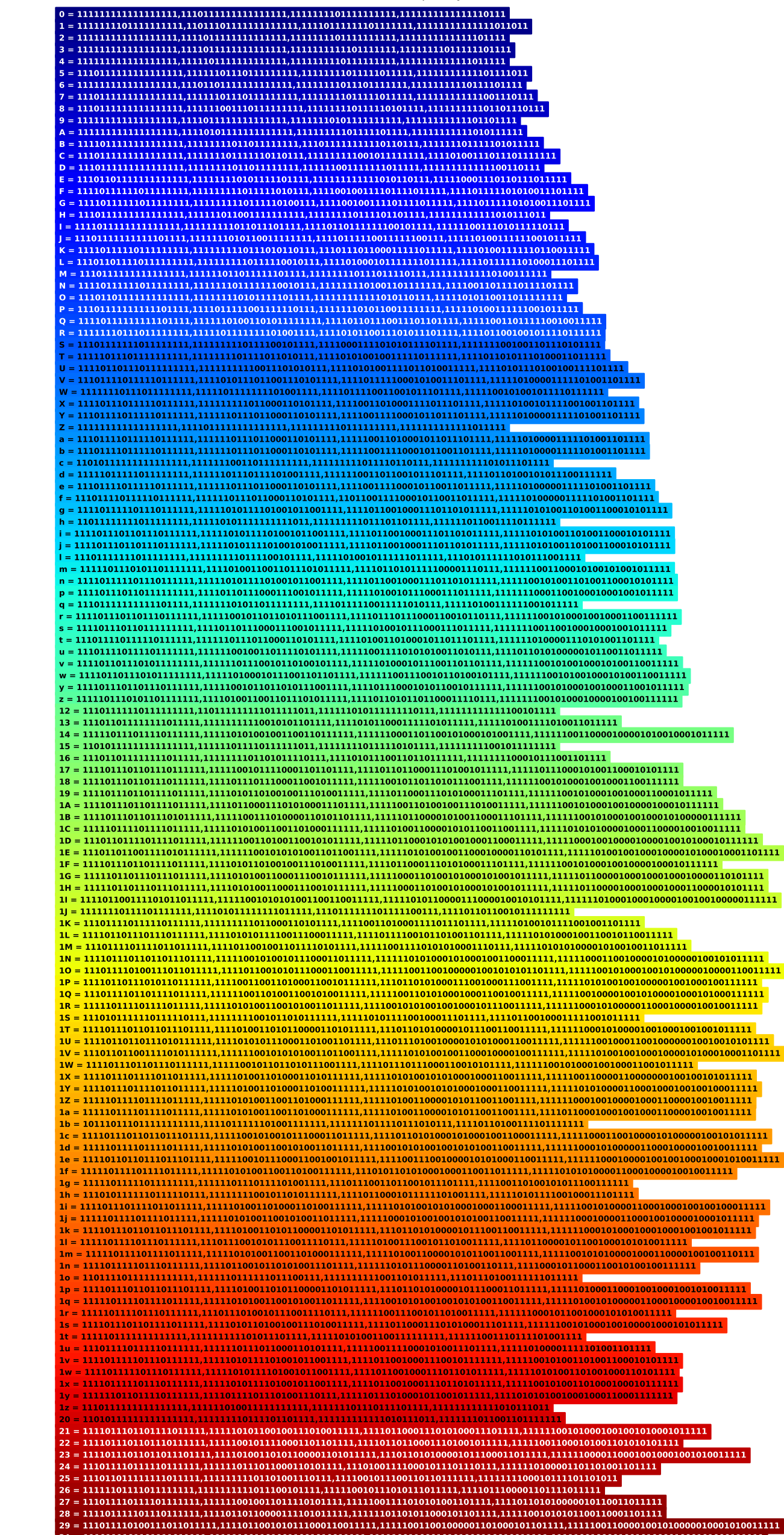
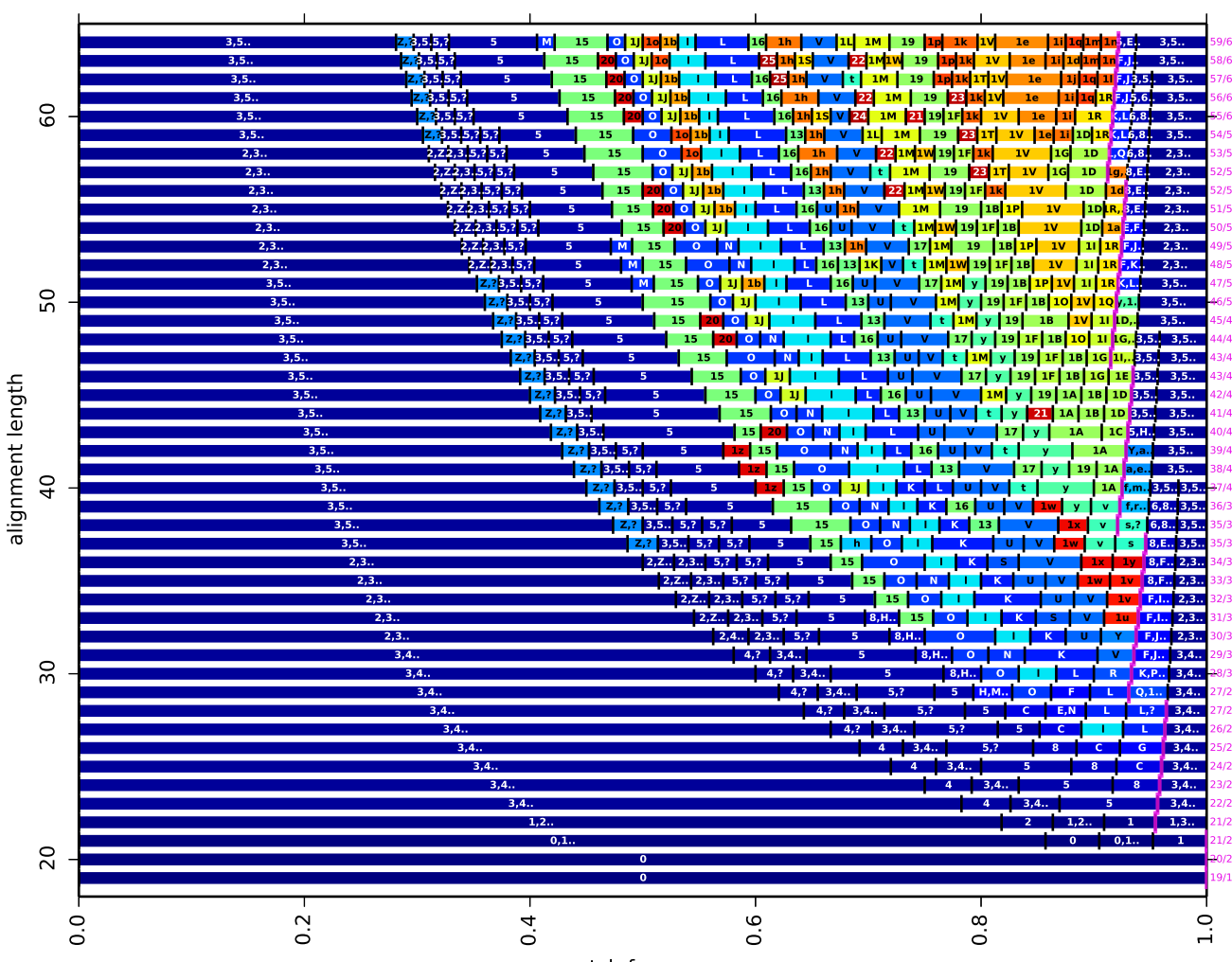
\int_x^1 Hit Integration (n:4,w:18)



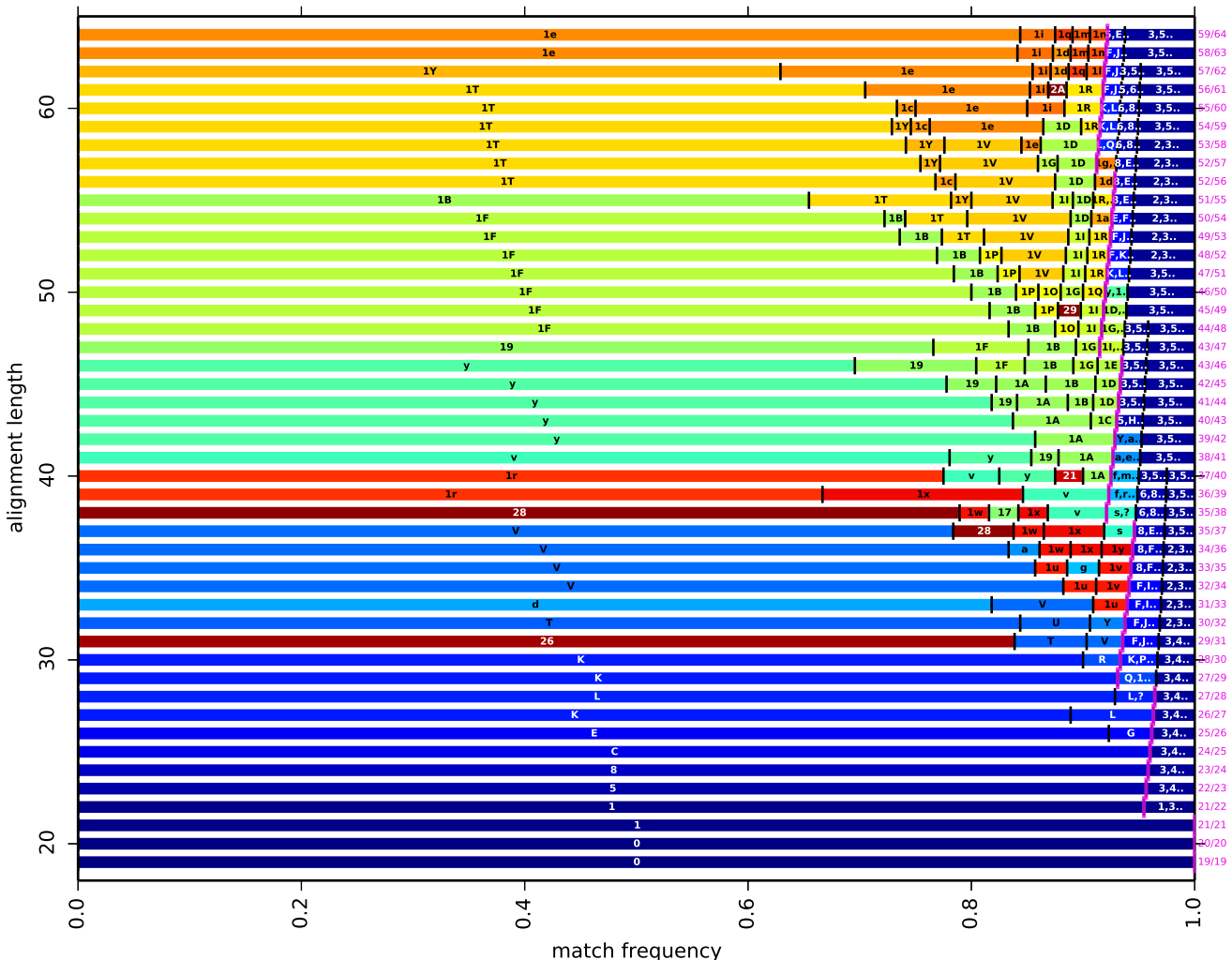
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5 = 11101111111111111111,11111101110111111111,11111110111110111111,111111111111011110111
8 = 11101111111111111111,1111110011101111111111,11111110111110101111,111111111110110110111
C = 11101111111111111111,11111110111110110111,11111111001011111111,11110100111011101111111
E = 11101101111111111111,11111110101111101111,11111111111010110111,1111100011101101110111111
L = 11101101111011111111,111111111001110010111,11110100010111111011111,11110111110100011101111
Q = 111101111111011111,11111010011010111111,11110110110011101101111,1111100110111110010011111
R = 111111011101111111,11110111111101001111,11110101001110101110111,111101100100101111011111
S = 111011111101111111,1111111011110010111,1111000111010101110111,11111110010011011010111
T = 11110110111011111111,11111110111011010111,11110101001001111011111,11110110111010001011111
U = 11110110111011111111,1111111110011101010111,111101010011101101001111,1111010110100010011101111
V = 11101110111101111111,1111101011101100111010111,111101111000101001110111,11111010001111101001101111
X = 11110111011101111111,11111111101100011010111,11110010100011110110111,111110100111100100101111
Y = 11101110111101111111,11111011101100011010111,1111001110001010110111,1111101000111101001101111
a = 11101110111101111111,11111011101100011010111,1111100110100010101110111,11111010001111101001101111
b = 11101110111101111111,11111011101100011010111,111110011100010100110111,1111100001111101001101111
c = 111101111011111111,11111011101110100111,1111100110110010110111,111101101001010110011111
d = 111101111011111111,11111011101110100111,1111100110110010110111,111101101001010110011111
f = 11101110111101111111,11111011101100011010111,1101100111000101001101111,111110100001111101001101111
g = 1111011111011101111111,11111010111001100111,1111101001000111011011111,1111101001101001100010101111
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n = 11110111101101111111,1111101011101001100111,1111101001000111011011111,1111100101001101001100010101111
o = 11110111011011111111,1111101011101001100111,11110110010001110110101111,111110010100110000101011111
r = 11110111011011111111,111110010110101011100111,1111011011100011001010111,1111110010100010001100111111
s = 11110111011011111111,1111011011100011100101111,11110100101100011101111,1111110011001000100101011111
u = 11101111011101111111,11111100100110111010111,111110011101010011010111,11110110101000010110011011111
v = 11110110111011111111,111110111001011001010111,1111101000101110011010111,1111110010100100010100110011111
w = 11110111011011111111,11111010001011001010111,11111001100101010010111,111110010100010100010100110011111
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y = 1111011101101110111111,1111100101101101100111,111110111000101100101111,1111100101000100011001011111
z = 11111011101101111111,1111100110011011010111,11111010110110001110111,11111100101000100010010011011111
10 = 1111011011011011101111,11110101100100011010001111,11110110001110101000110111,111111001010001010000110010101111
19 = 11110111011011101111,111101011010011010001111,1111011001110101000110111,11111100101000100100010101111
1A = 11110111011011101111,11110110001110101000110111,11110011010010011101001111,11111001010001001000101011111
1B = 11110111011011101111,1111100111010000110101011,1111101100001010011000110111,1111101010010010010001010000111111
1D = 11101101110110111111,11111001100110010101111,111101100010101000100011111,111110001010000100010100010111111
1F = 11110111011011101111,111101011010011001001111,111101100011010100110111,111110010100010000100010111111
1G = 11110110111011101111,11110101001100011100101111,11111000101001010001010010111,11111011000010001000100010101111
1H = 11111011011011101111,11110101001100011100101111,111110001101001010001010010111,111110110000100010001000010101111
1I = 1111011001111010101111,11111001010100110011001111,11110101010000111000010010111,11111101000100010000100100000111111
1J = 1111011101101101101111,11111001010010110001010111,111110101001010001000011111,111110011000010000010010101111
1K = 1111011101101101101111,1111100101001001100101111,1111011010001010001001111,11111000101000010001000100011111
1L = 1111011101101101101111,1111100101001100011001111,11111010100101000100010001111,111110011000010001000100010011111
1M = 1111011101101101101111,1111100101001100011001111,11111010100101000100010001111,111110010100010001000100010011111
1N = 1111011101101101101111,1111100101001100011001111,11111010100101000100010001111,111110010100010001000100010011111
1O = 1110111101001110101111,1111011001010110001100111,1111001100100000100101010111,111110010100010010100001000110011111
1P = 1111011011101011011111,111100110010001100101111,111101101000111001001111,111110101001001000001001000111111
1Q = 11101111011011011111,1111100110011001100101111,111110101000111001001111,111110101001001000001001000111111
1R = 11101111011011011111,1111100110011001100101111,111110101000100010001111,111110010001001000010001000111111
1T = 11110111011011101111,111110101001100100101111,11110101001001000101111,11111000101000011000100010011111
1U = 11110110110110101111,111101010110001010010111,1110111010010001010001001111,1111110010001100100000100100101111
1V = 1110111011001110101111,111110101010100110100111,1111101010011000100001001111,11111010010010001000010100010101111
1X = 11110111011101101111,11111001100110001010111,111110100101000100010001111,11111001000010000001000101011111
1Y = 11110111011101101111,11111001100110001010111,111110100101000100010001111,111110100001100010001000100011111
1Z = 11110111011011011111,111110010100101100010111,111110101001000101000100111,11111000101000010100001001011111
1a = 11110111011101101111,111110010100101100010111,111110101001000101000100111,11111000101000010100001001011111
1b = 11110111011101101111,111110010100101100010111,11111010100100010100100111,11111001010000100010000100101111
1c = 11110111011101101111,111110010100101100010111,111110101001000101000100111,11111000101000010100001001011111
1d = 11110111011101101111,1111101010011001010010111,1111100101001001010100100111,1111100010100001100010000100101111
1e = 111101101101110110111,11111001011000110010010111,11111001100100001010000100111,11111100010000100100010001010011111
1f = 11110111011101101111,1111100101000110100111,111110100101000100001000111,11111001010001000010001000100011111
1m = 11110111011101101111,11111010100110011010001111,1111101001100001010100100111,1111100101010000100010000100101111
1q = 11111011110111011111,1111101010011001010010111,1111001010100100101001100111,1111101001010000110001000010010011111
    
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Dirac (n:4,w:18)

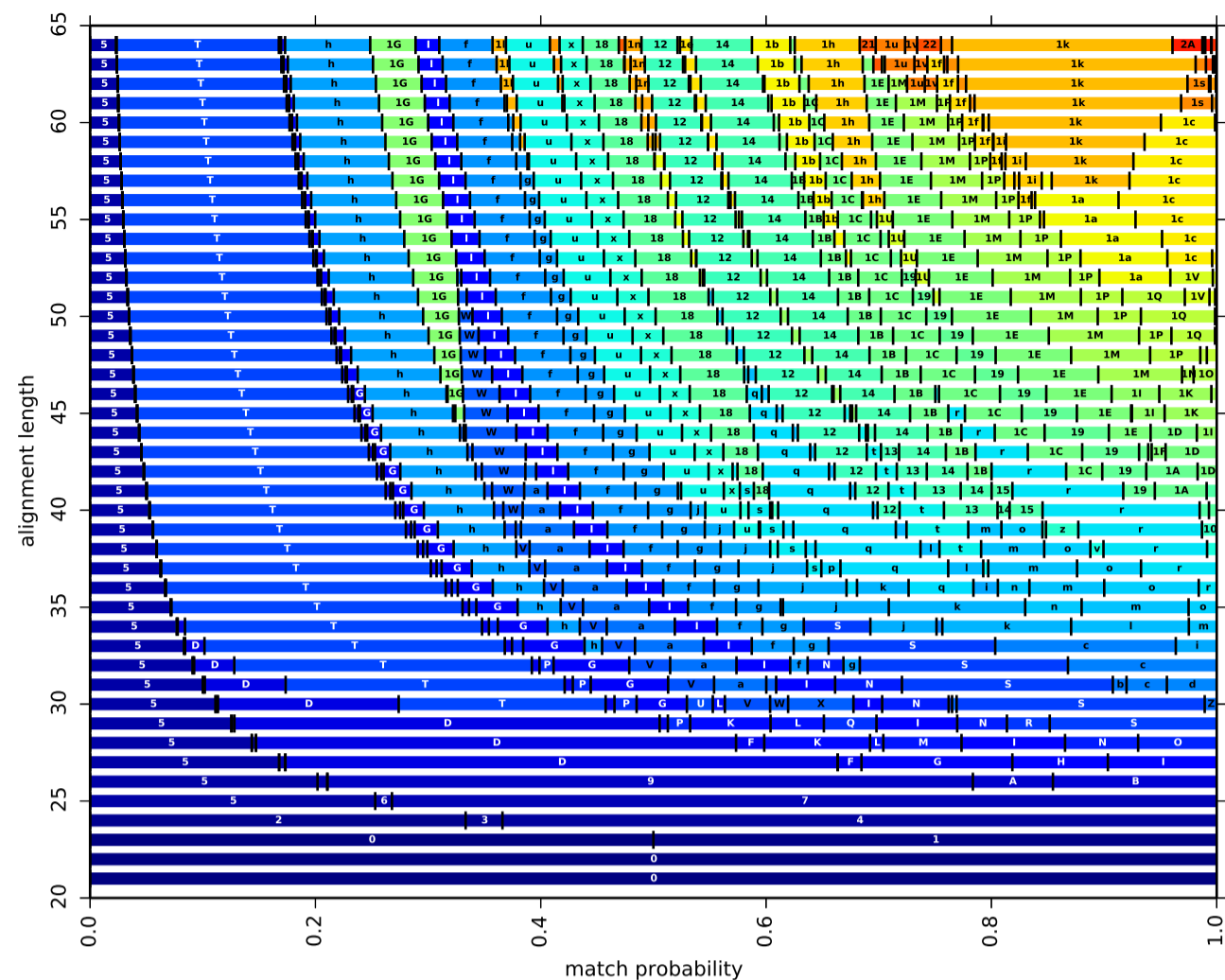


$$\sum_x \text{Heaviside}(n;4,w;18)$$



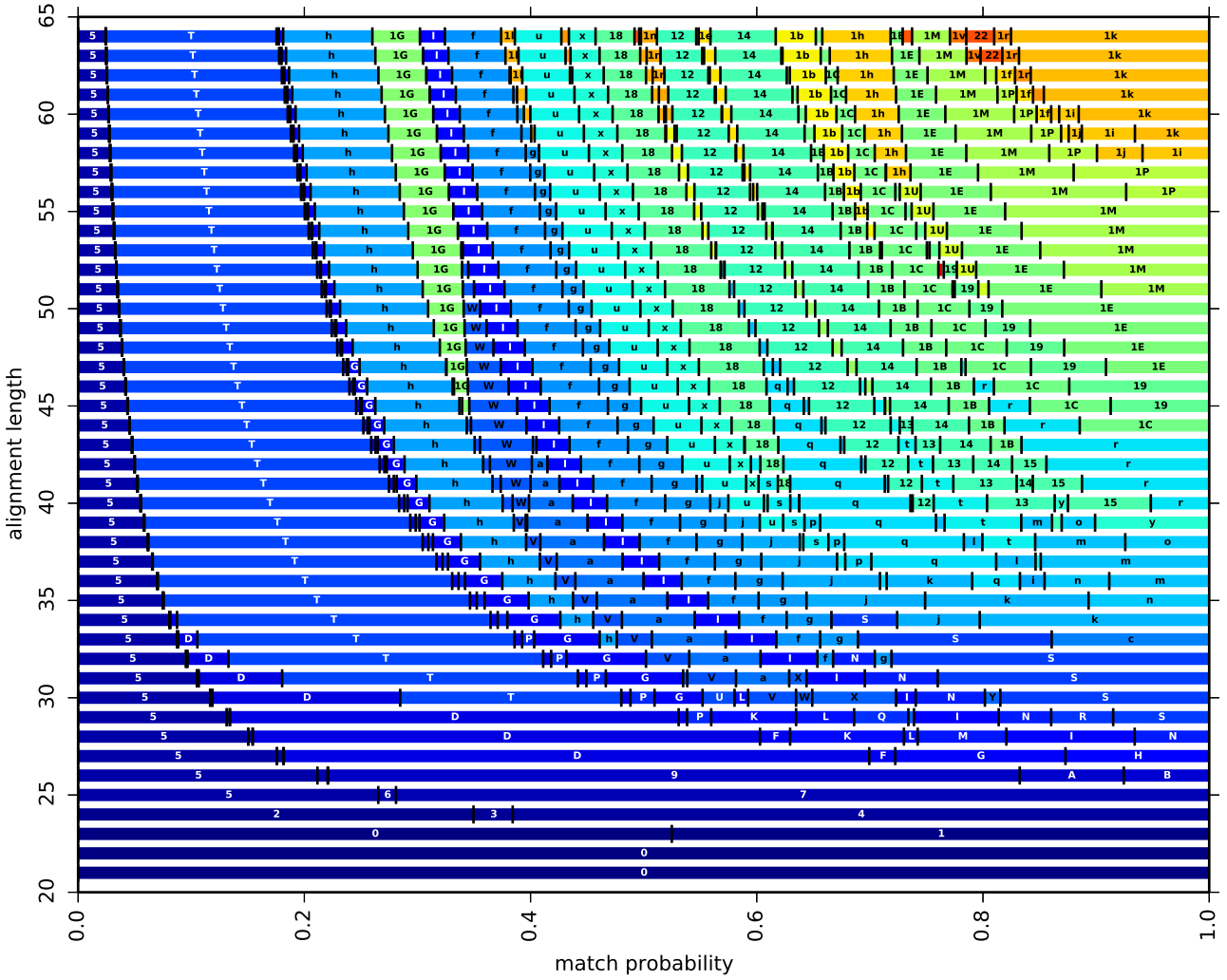
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2	111111111111111111,111011111111111111,111111101111111111,111111111111110111
3	111111111111111111,111011111111111111,111111111011111111,111111101111101111
4	111111111111111111,111101111111111111,111111111011111111,111111111111101111
5	111011111111111111,111110111011111111,111111101111101111,1111111111110111011
6	111111111111111111,111011011111111111,111111110110111111,111111111011101111
7	111011111111111111,111110111011111111,111111101111101111,11111111111100110111
8	111011111111111111,111110011101111111,11111110111110101111,11111111110110111011
9	111111111111111111,111101111111111111,111111101111111111,11111111111110110111
A	111111111111111111,111010111111111111,111111101111101111,111111111110101111
B	111101111111111111,111110110111111111,1110111111111010111,1111110111111010111
C	111011111111111111,1111110111111010111,111111110010111111,11110100111011011111
D	111011111111111111,111111101101111111,11111100111111011111,11111111111110011011
E	111011011111111111,111111101101111111,111111101101111111,111110001110110110111
F	111101111110111111,1111111011111010111,111100100111101110111,1111011110100110111
G	111101111110111111,111111101110100111,111100100111101110111,1111011110101110111
H	111011111111111111,111111011001111111,111111101110110111,11111111111101011011
I	111101111111111111,111111101101101111,111110110111110010111,11111100111010111011
J	111011111111101111,111111101100111111,111110111100111100111,111110100111110010111
K	111101111110111111,111111110111010111,111011101000111101111,11110100111110100111
L	111011011110111111,1111111011110010111,111101000111101111,111101111101000110111
M	111101111111111111,111111011011110111,111111101101110111,11111111111010011111
N	111101111110111111,1111110111111001011,1111111010011011111,11110011011101101111
O	111010111111111111,111111010111101011,11111111111010111,11111010110011011111
P	111011111111101111,1111011110011111011,111111010100111111,111110100111110010111
Q	111101111111101111,111110100110111111,11110110110011101111,111100110111100100111
R	111111011011111111,111110111110100111,11101100111010110111,111101100100101111
S	111011111110111111,111111101110010111,111100011110101110111,11111100100110110111
T	111101111111111111,111111101111010111,1111010100100111101111,111101101111010011011
U	111101101110111111,1111111100111010111,111101010011101101001111,111101011101001011
V	111011101111101111,11111010111010011010111,111101111000101001110111,111110100001111010010111
W	111111011111101111,111110111110100111,1111011100110010110111,111110100110111101111
X	111101101111101111,1111111101100011010111,111100110100011110110111,111110100111100100111
Y	111101111011111111,111110111011001010111,1111001110001010111,11111010001111010010111
Z	1111111111111111,1111011111111111,1111111110111111,1111111111101111
a	111011101111101111,11111011101100011010111,111110011010001010110111,11111010001111010010111
b	111111011110111111,11111011101100011010111,11111001110001010010111,11111010001111010010111
c	110101111111111111,111111001101111111,111111101110110111,1111111110101110111
d	111101111011111111,11111011101110100111,1111100110100101110111,1111011010010111001111
e	111011101111101111,11111011110110011010111,11110011100010100101111,111110100001111101011011
f	111011101111011111,111111011101100011010111,1111010011100010100110111,111110100001111010010111
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h	111011111011111111,111110101111111011,1111111011011010111,1111101100111010111
i	111101101101101111,11111010111101001100111,11111011001001110110111,111110101001101001010111
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k	111101111011101111,11111101110110010111,111101001011110111,11110111101110110111
l	111101101110111111,11111101101110010111,1111010010111000110111,1111010011111001100111
m	111101101101101111,11110100110110101111,111101101111000110111,1111101001000101001010111
n	111101111011011111,1111010111101001100111,11110110010001110110111,1111001010011010010001010111
p	111101101110111111,111101101110001110010111,1111101001011000110111,11111100011000100010010111
q	111011111110111111,1111110101101110111,1111011100111101011,111110100111110010111
r	111101101110111111,1111100101101010111,11110110111000110010111,11111001000100010001010111
s	111101101101111111,1111011011000110010111,11110100111000110111,111111011001000100010010111
t	111011101110111111,11111011101100011010111,111101001101000110110111,11111010000111010010111
u	111011101110111111,111111001001111010111,111110111010101001101011,11111010100000111010010111
v	111101101101101111,1111110101100101010111,11111010001011001010111,1111100101000100010010011111
w	111101101110101111,11111010001011001010111,11111001100101010010111,111111001010001000100010010111
x	111101101101101111,111110010101011100111,111101100010110010111,1111110010001000100010010111
y	111101110101101111,111110101110101111,1111011011101000110111,1111110100101010001010111
z	111101111011111111,110111111111111011,1111101011111110111,1111111111110010111
12	111101111110111111,111111111001011011,1111101011111110111,1111101111110010111
13	111011011111101111,111111110010110111,111101010001111010111,1111101001111010010111
14	111110110111011111,111110101001001100101111,111110001101001010001010111,111110011000010000101001001111
15	110110111111111111,111110111011111011,1111111011111010111,111111111001011111
16	111011011111101111,111110110101111011,11110111001101101111,111111100010110010111
17	11110110110110111111,1111101011110001010111,11111011011000111010010111,1111111100010100110001010111
18	11110110110110111111,1111011111000110010111,11110010110101101100111,11111001010001000110011111
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1A	11110111011011101111,11110100011101000110111,1111100110100110110111,11111100110001000100010001011111
1B	11110111011011101111,111110011010000101010111,111110100010010001000110111,11111001010001000100001000101111
1C	111101110110111111,111101001001001100011111,11111010010000101010010111,111110101000010001000100101111
1D	1110110111011101111,11111001010011001010111,111110110001010100010001111,1111101010001000010000101000101111
1E	111011011001110101111,111111001010100110100111,111110100100110001000011010111,111110100100010001000101000101111
1F	1111011011011011111,11110101101001001101001111,11110110001110101000110111,11111100101000100100010001011111
1G	11110110111011011111,111110011001001100101111,11111000110001010001000100101111,1111100100010001000101010111
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Bernoulli (n:4,w:20)



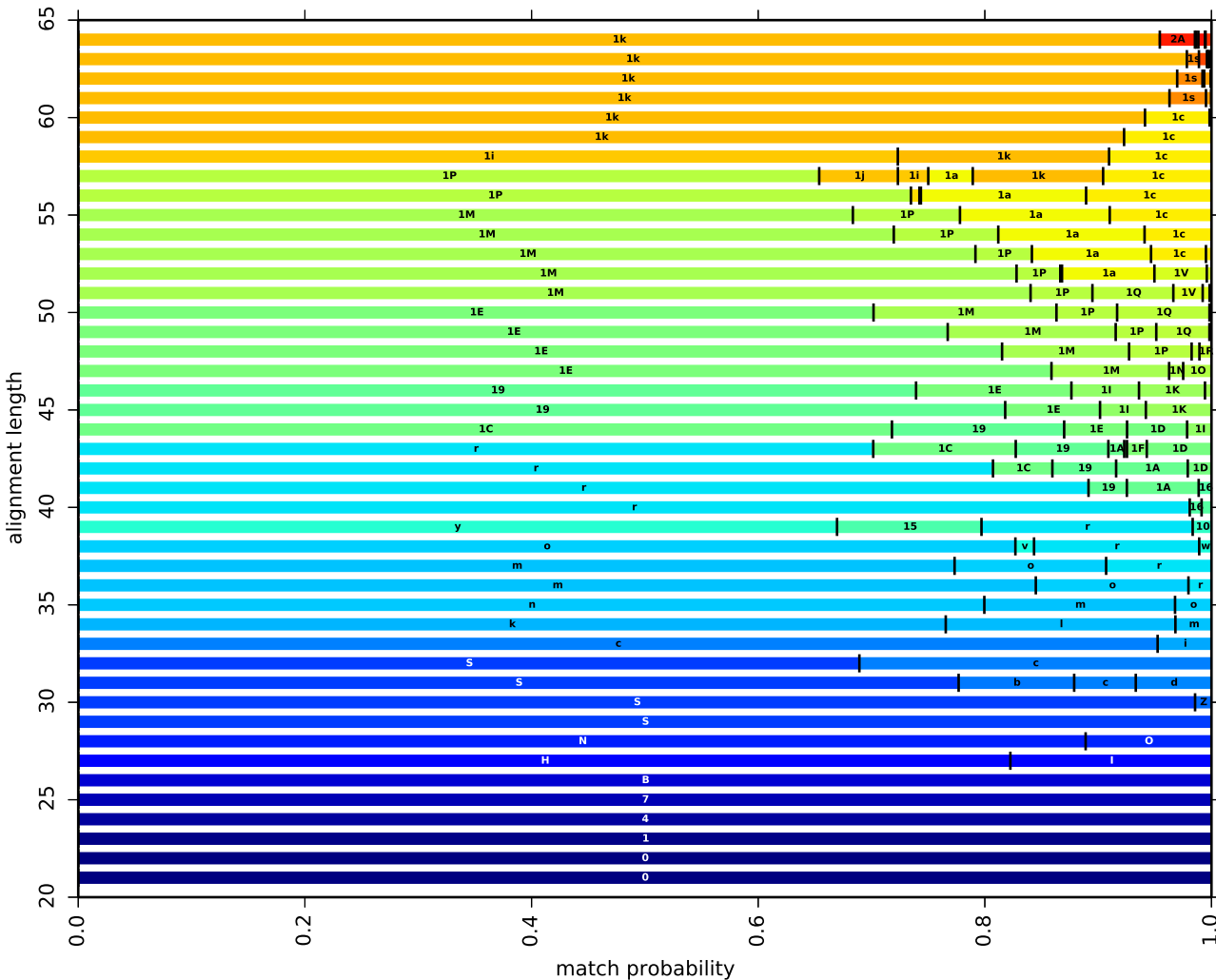
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\int_0^x Hit Integration (n:4,w:20)



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\int_x^1 Hit Integration (n:4,w:20)

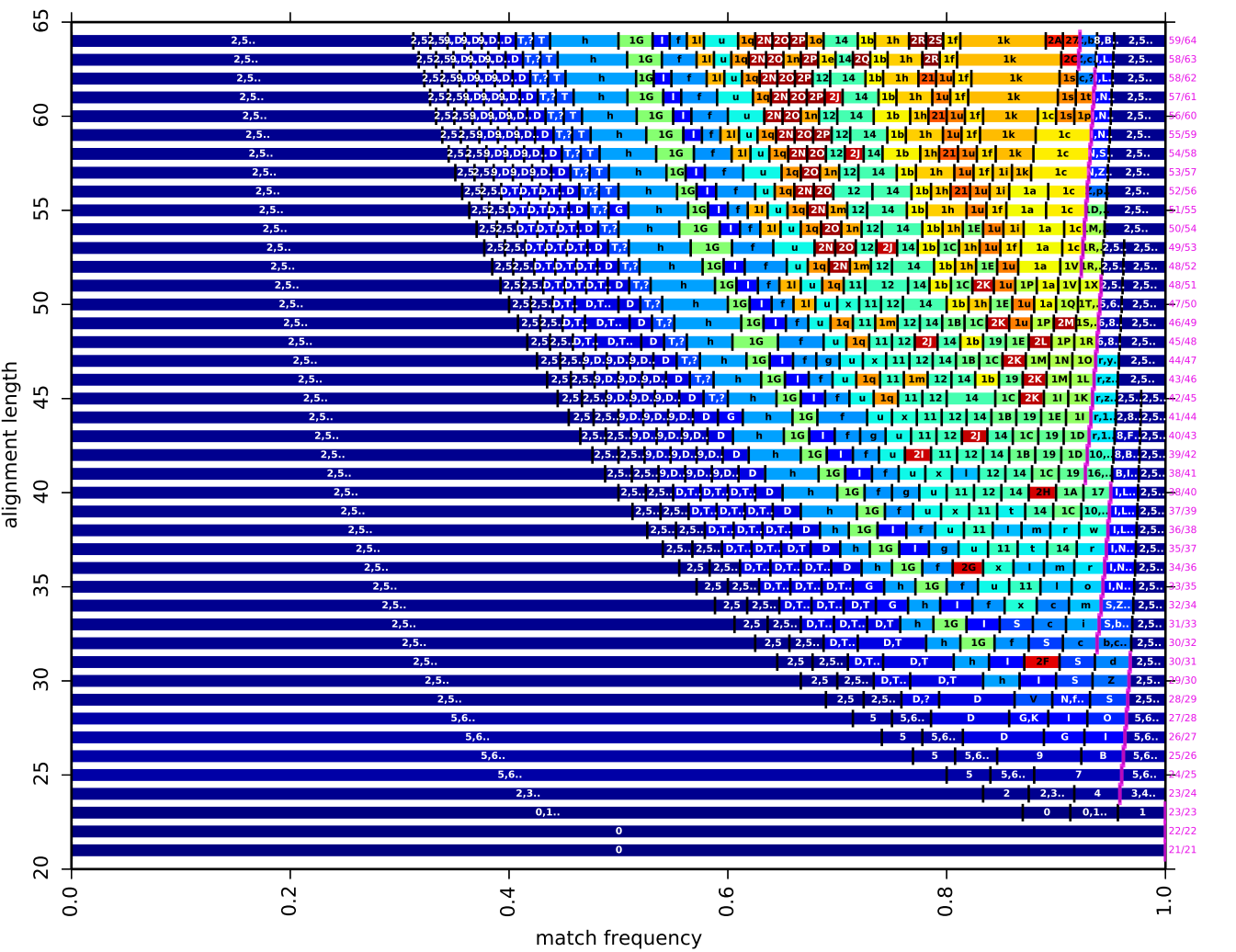


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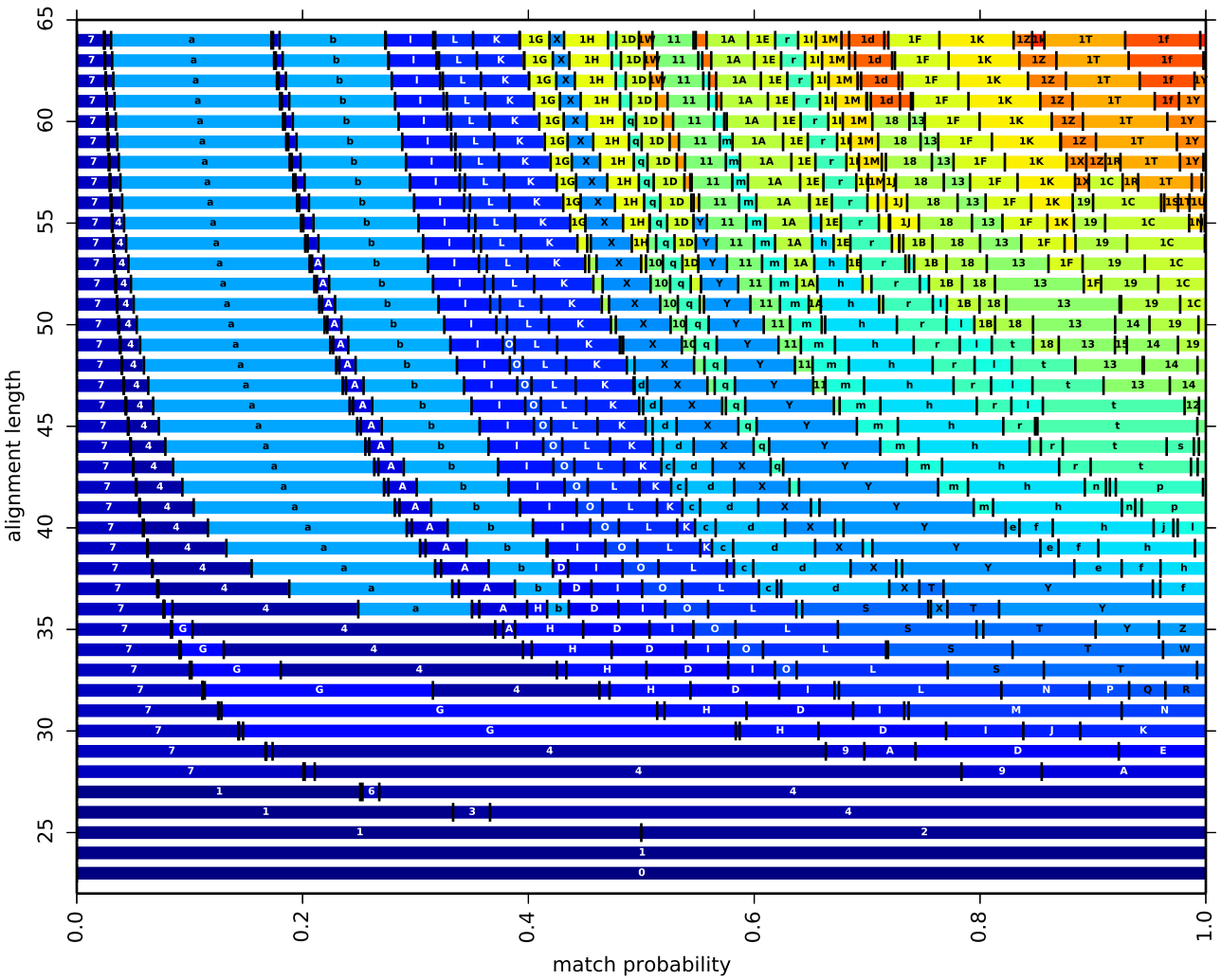
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Dirac (n:4,w:20)



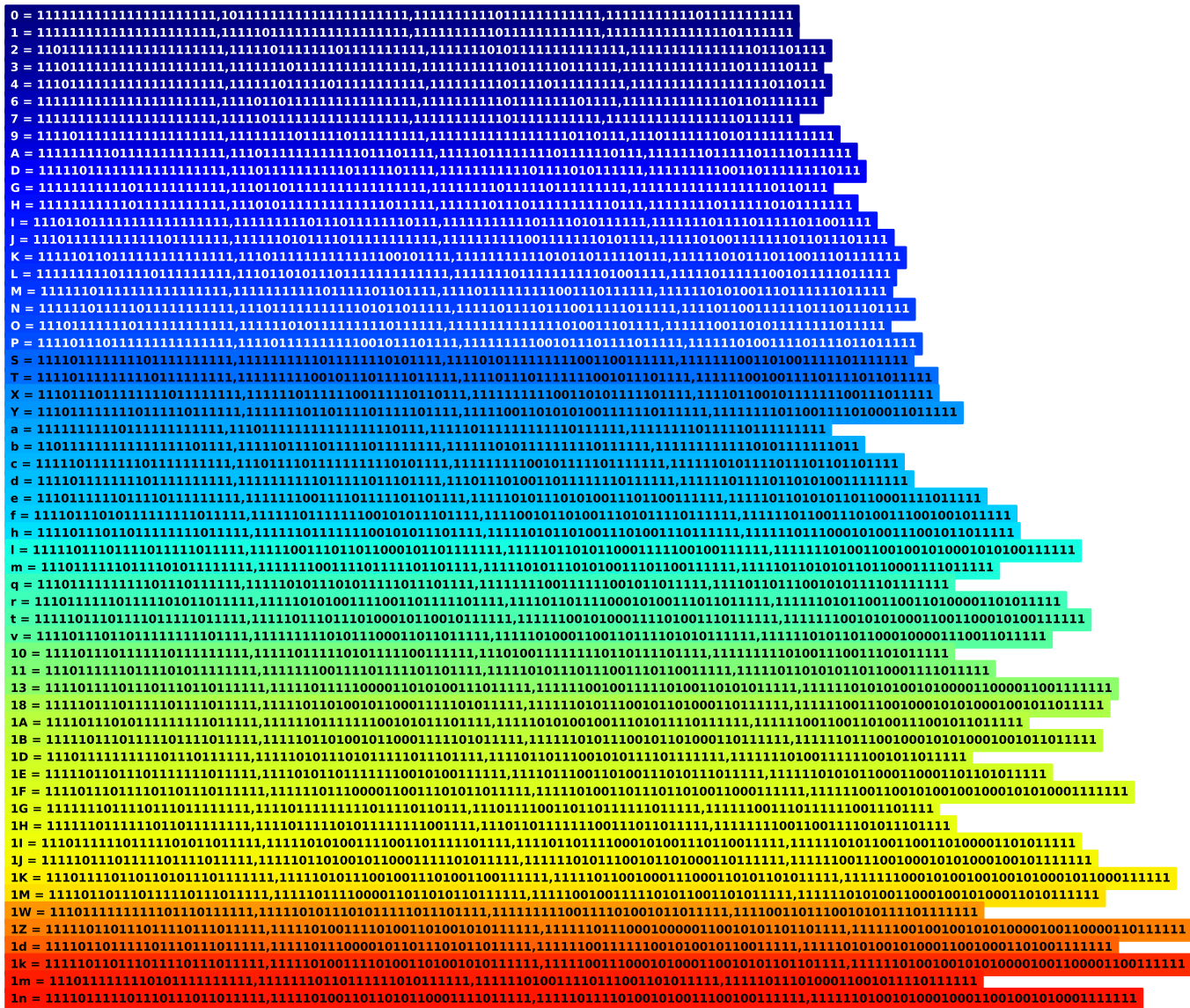
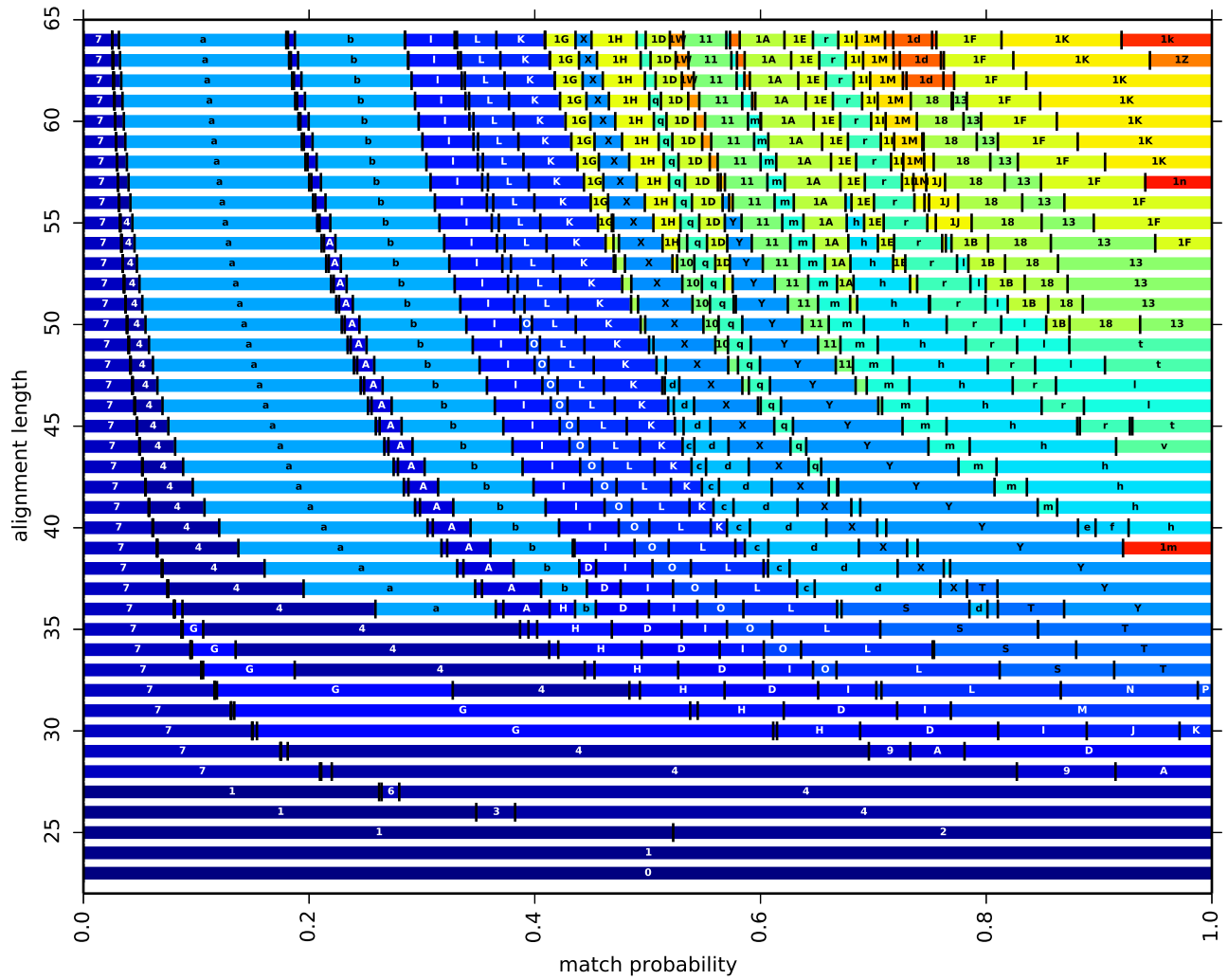
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Bernoulli (n:4,w:22)

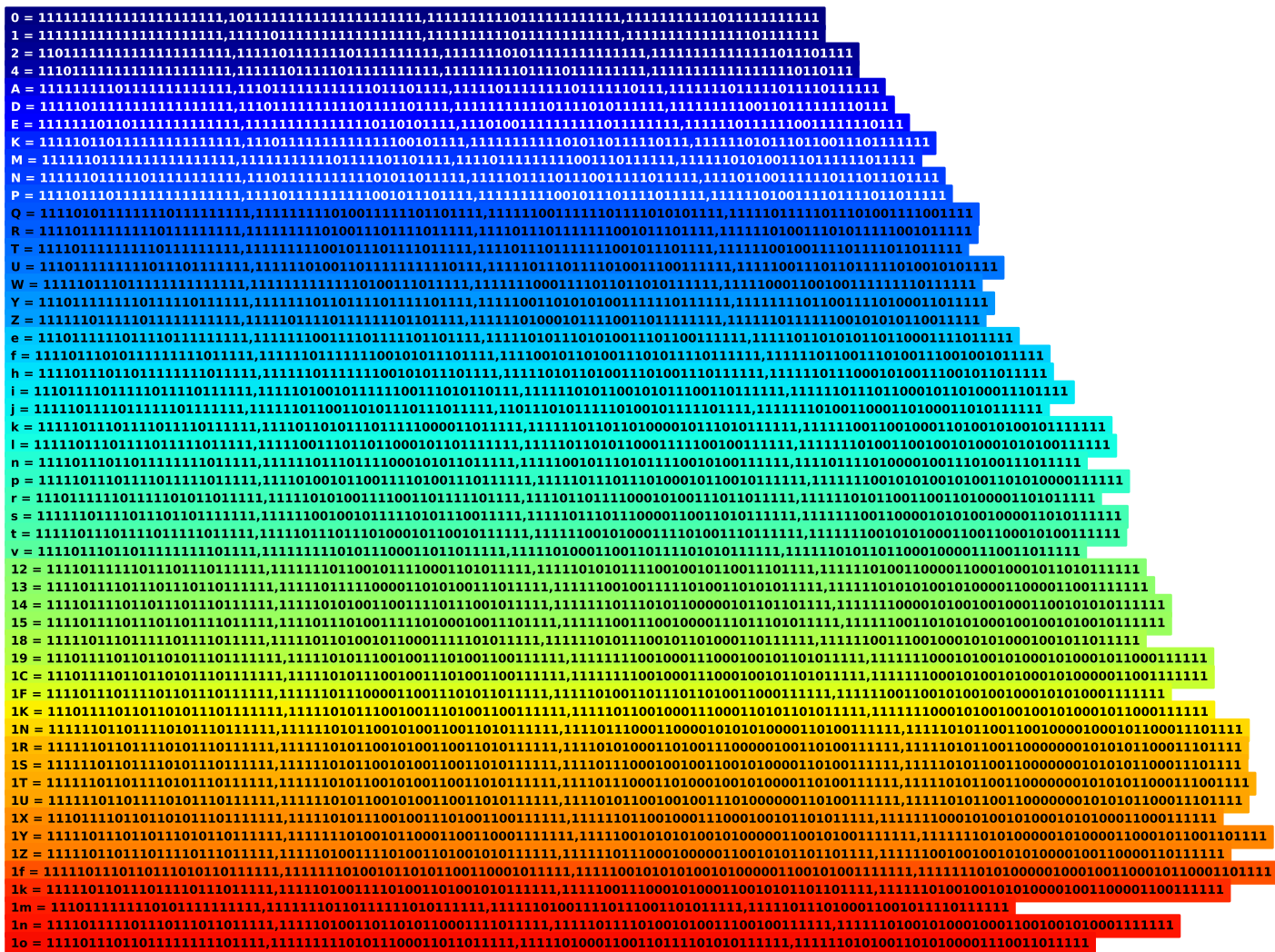
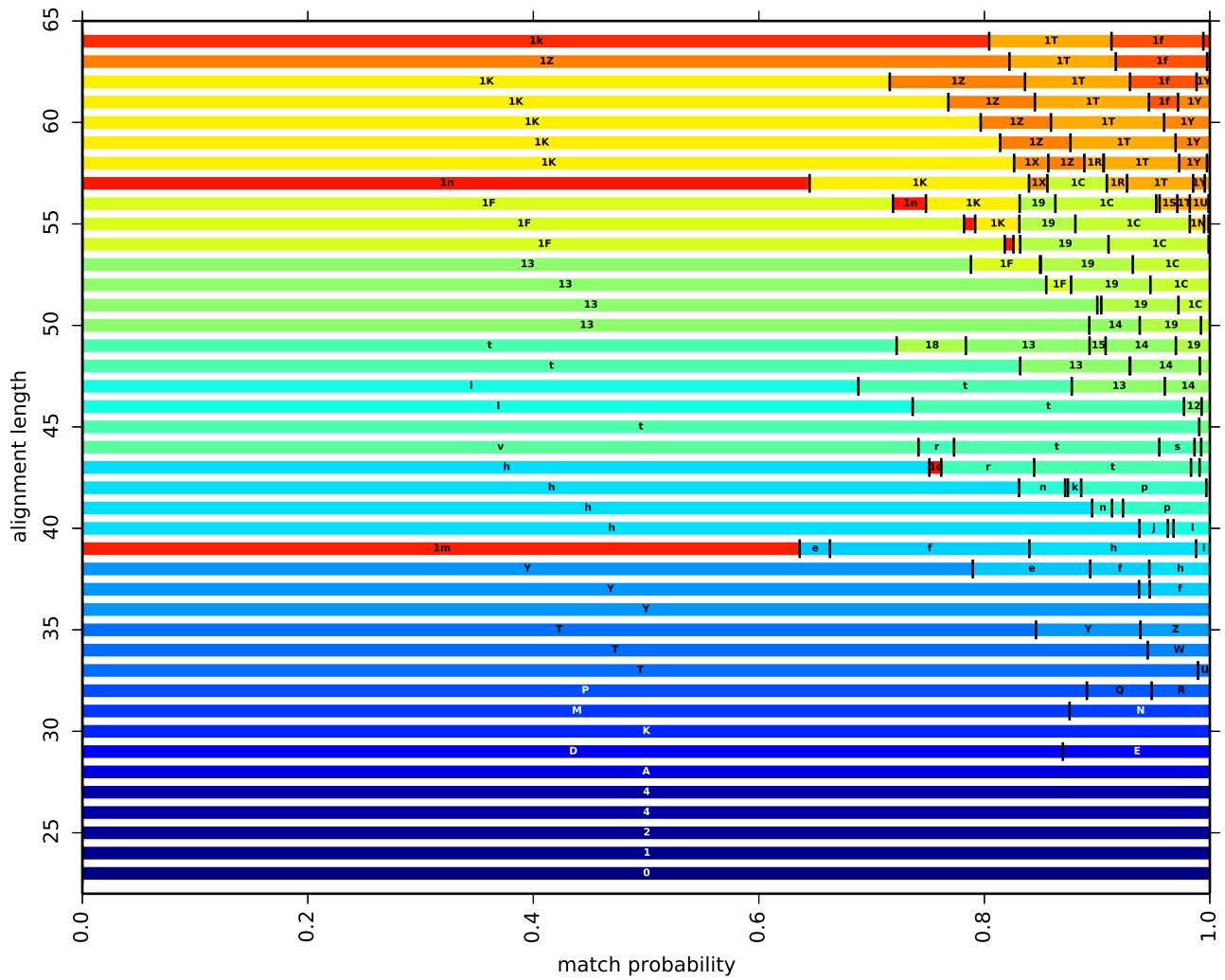


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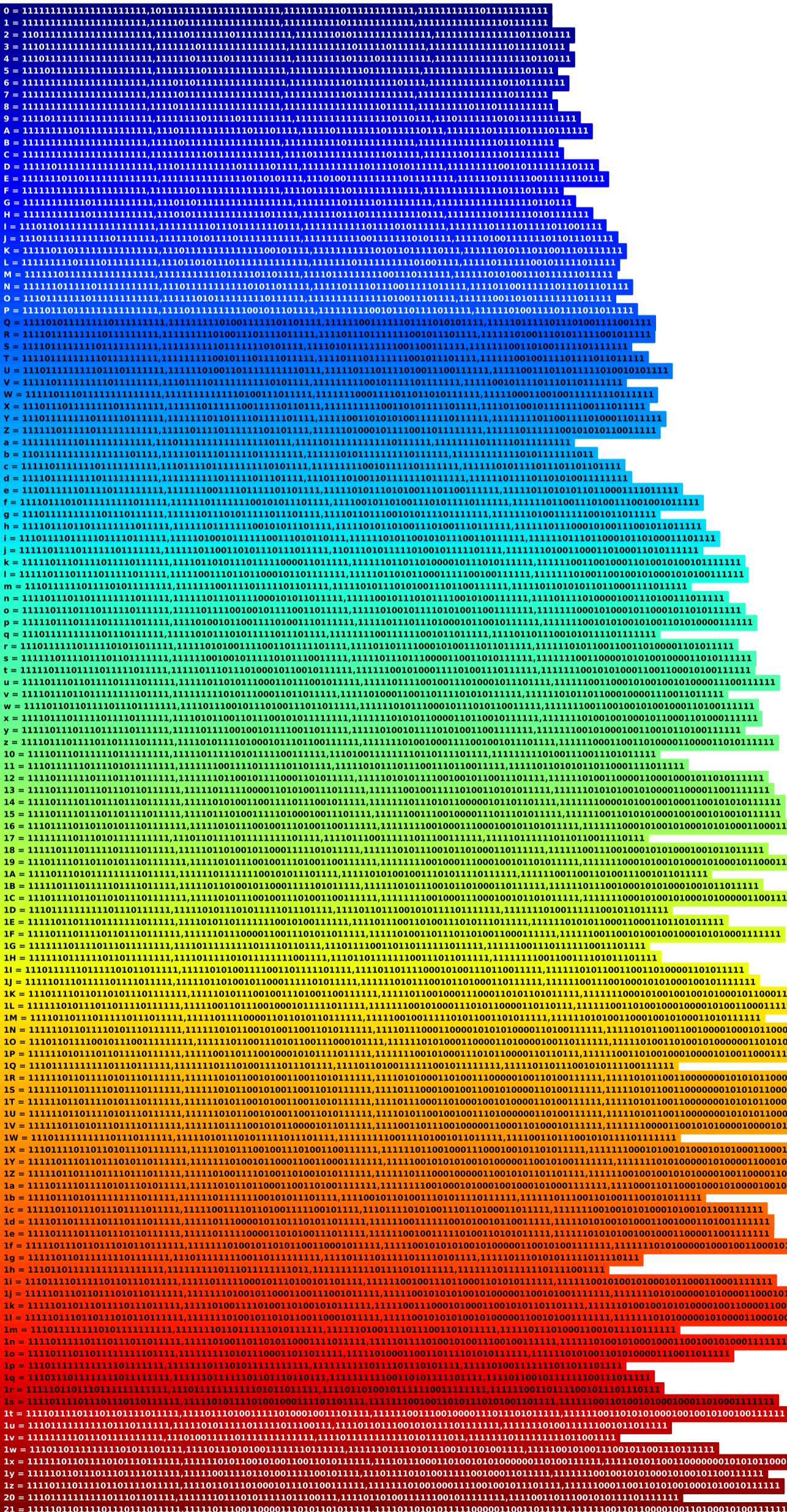
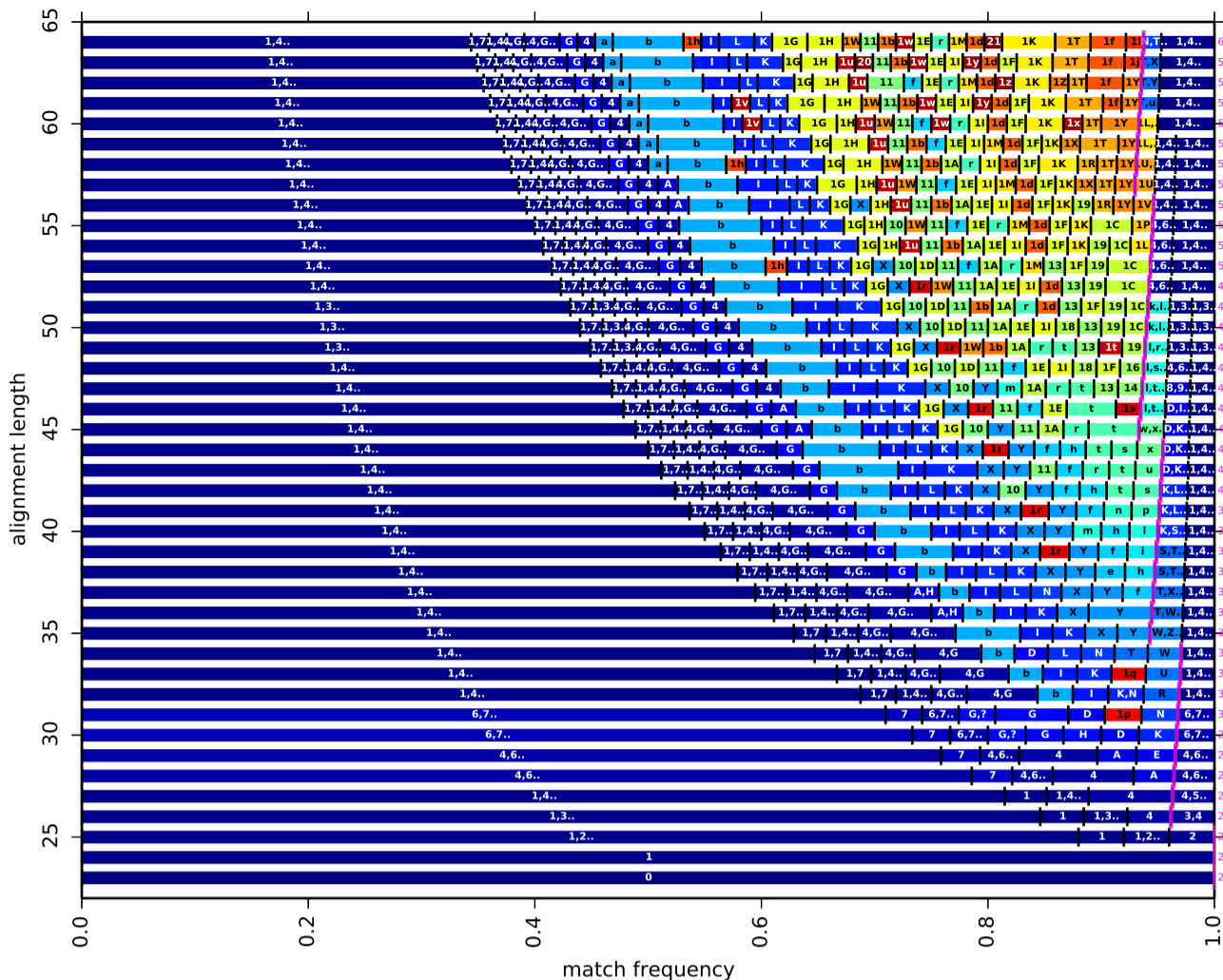
\int_0^x Hit Integration (n:4,w:22)



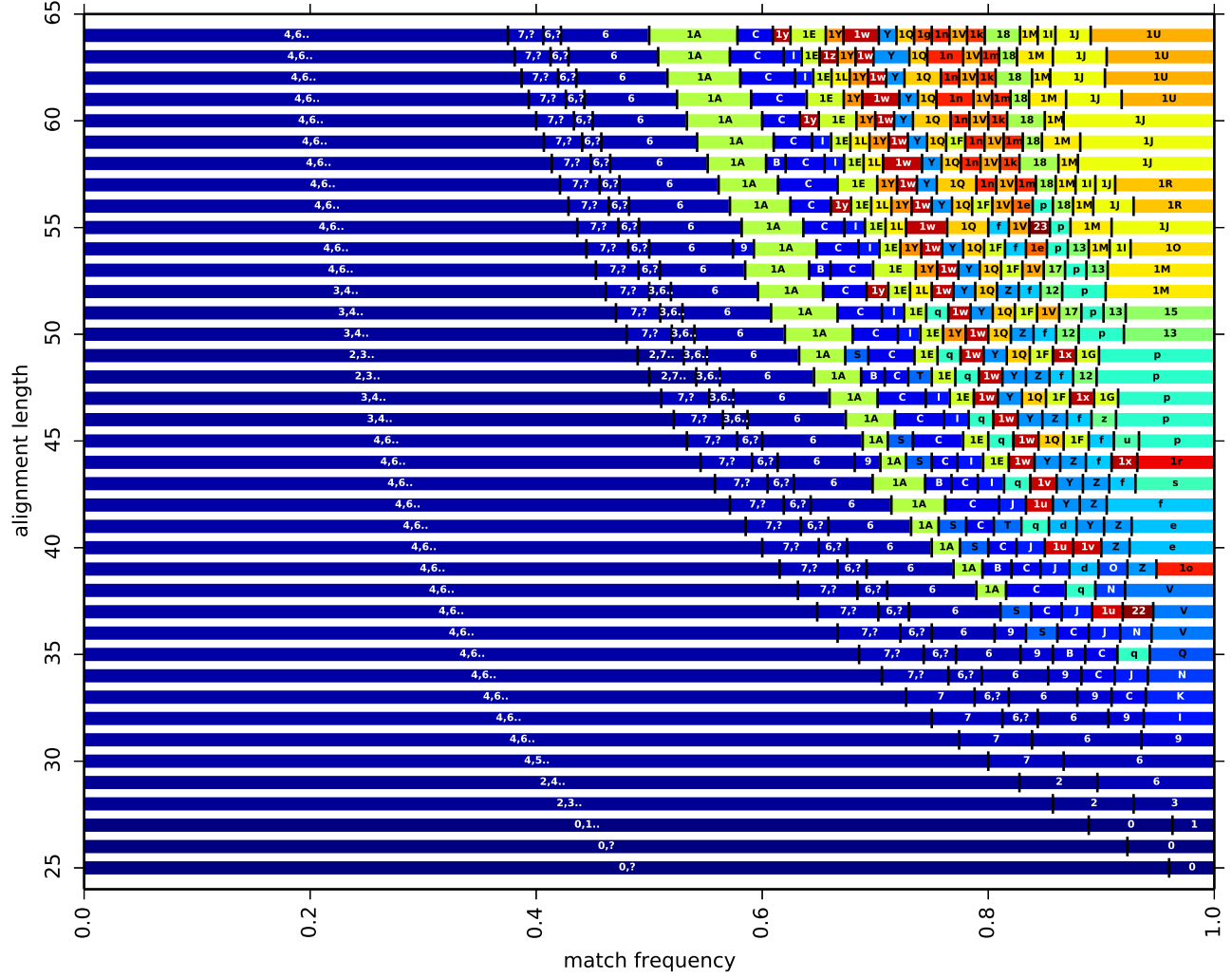
\int_x^1 Hit Integration (n:4,w:22)



Dirac (n:4,w:22)



$$\sum_0^x \text{Heaviside}(n:4,w:24)$$



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2 = 11111111111111111111,11111111111111111111,1111111111110111111111,111111111111111111011111
3 = 11111111111101111111,11101101111111111111,1111111101111111110111,111111111111111101101111
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C = 11101111111111111111,1111110101110111111111,11111111111100111011111,1111111111110110111110111
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