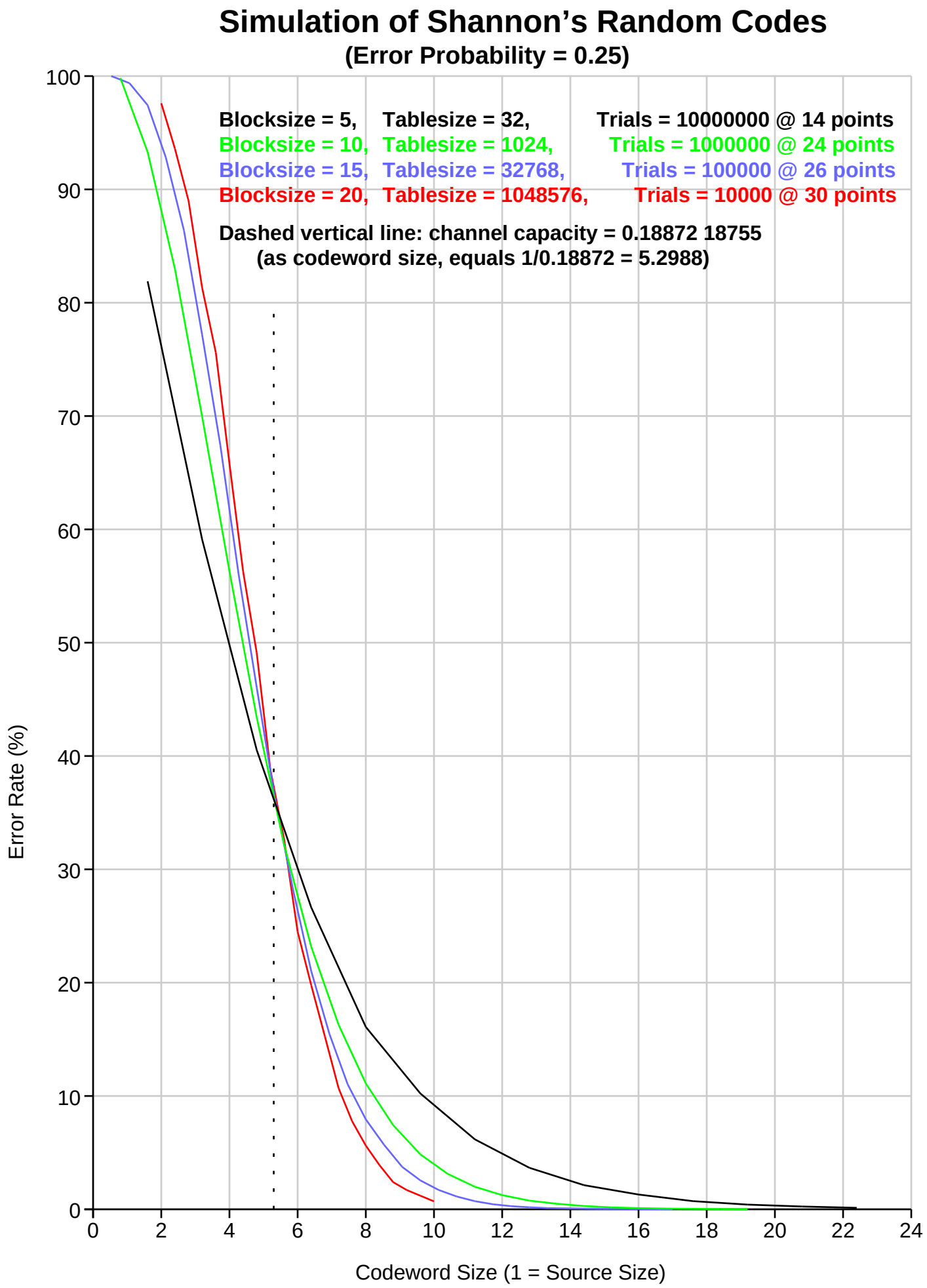
Simulation of Shannon's Random Codes
(Error Probability = 0.25)
Blocksize = 5, Tablesize = 32, Trials = 10000000 @ 14 points
Blocksize = 10, Tablesize = 1024, Trials = 1000000 @ 24 points
Blocksize = 15, Tablesize = 32768, Trials = 100000 @ 26 points
Blocksize = 20, Tablesize = 1048576, Trials = 10000 @ 30 points
Dashed vertical line: channel capacity = 0.18872 18755
(as codeword size, equals 1/0.18872 = 5.2988)
Error Rate (%)
Codeword Size (1 = Source Size)
0
10
20
30
40
50
60
70
80
90
100
0
2
4
6
8
10
12
14
16
18
20
22
24