Matlab simulation:
(a) repetition coding under different time diversity

Pe under coherent detection, Num = 10000, N = 25
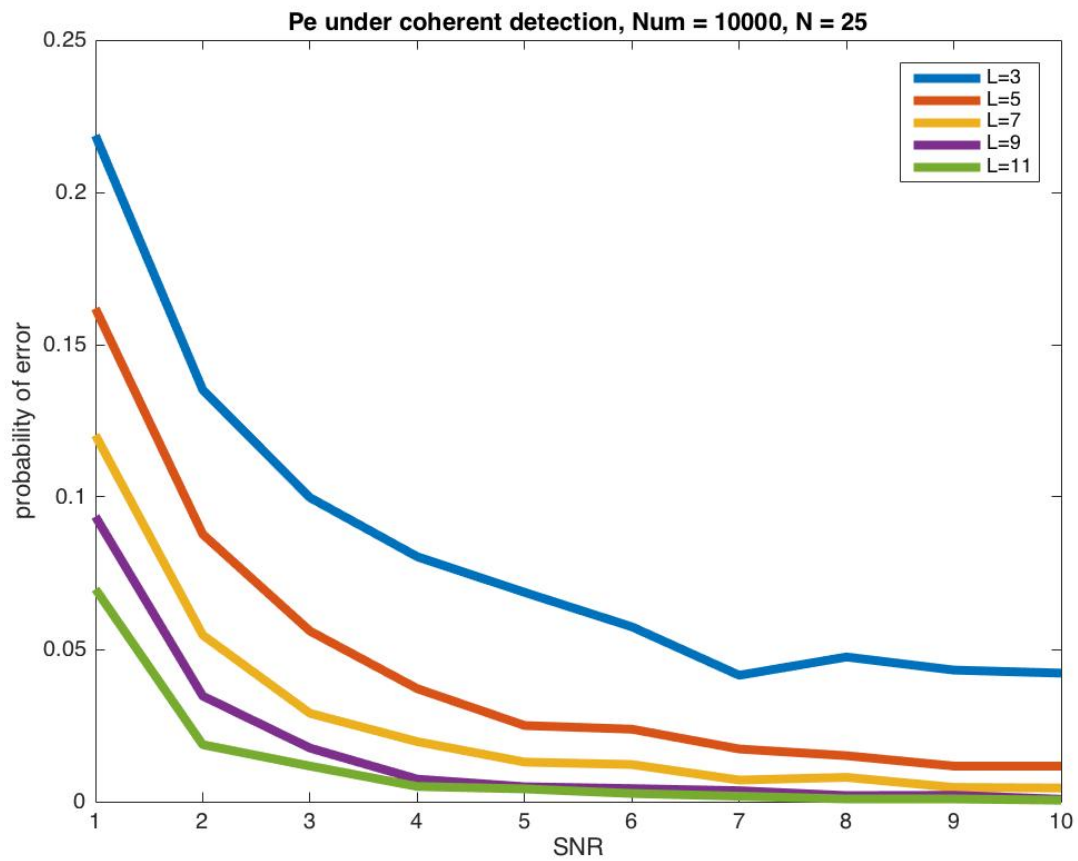
The effect of time diversity is showed in the plot.

(b) Hamming(7,4) coding

Pe using Hamming code (7,4), Num = 10000, N = 25
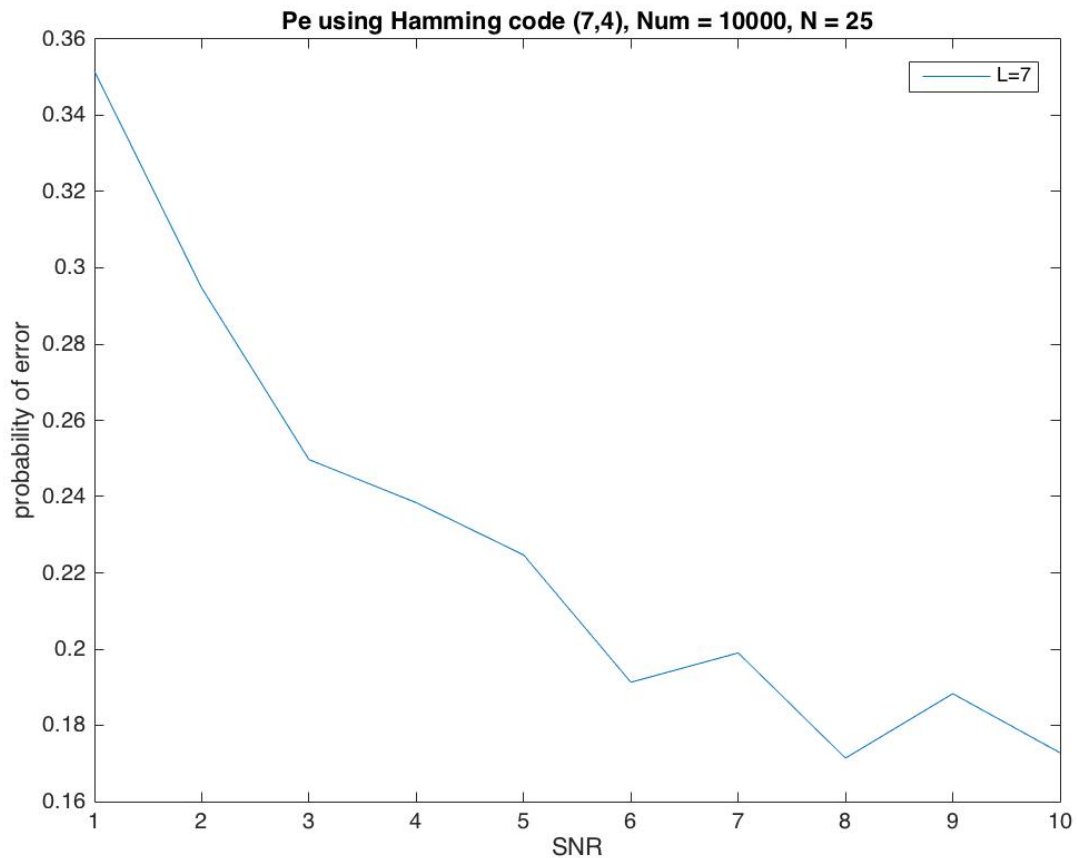
it is obvious that Hamming(7,4) perform worse than repetition coding. This is because the coding rate here only 7/4 = 1.75, but the coding rate in repetition coding in 3, 5, 7, 9, 11, respectively.