EE477 Homework 5

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I. Channel I

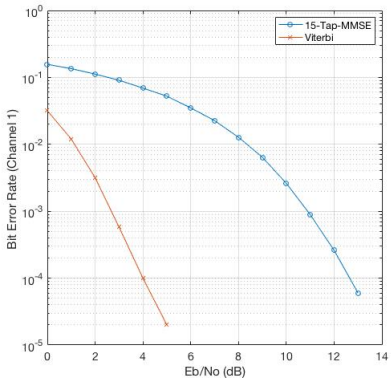

Fig. 1: channel 1 semi-logarithmic BER vs Eb=N0

It is obvious that Viterbi Algorithm has better results. On the other hand, computational complexity of Viterbi Algorithm is such high that it is not efficient to use in practical applications ofsome channels. Whereas MMSE equalizer does not have this computational complexity and gives applicable BER performance depending on the noise and the performance you want to achieve.

II. Channel II

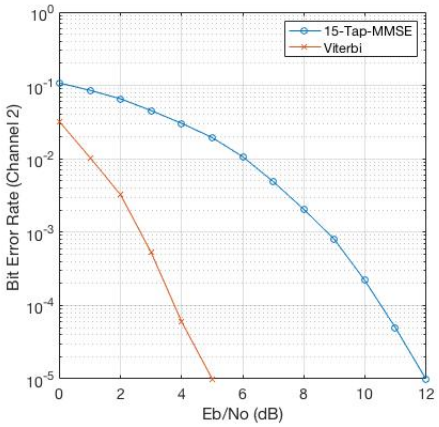

Fig. 2: channel 2 semi-logarithmic BER vs Eb=N0

III. Channel III

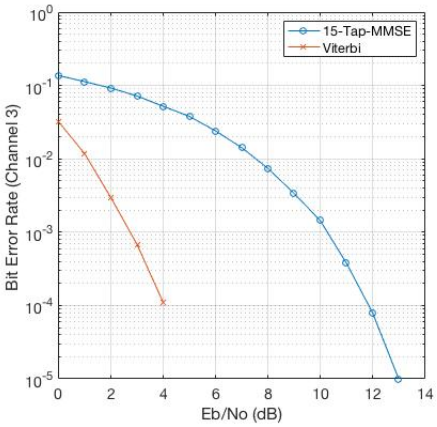

Fig. 3: channel 3 semi-logarithmic BER vs Eb=N0