

**S-72.3280 Advanced Radio Transmission Methods.  
Spring 2007**

**Home assignment: 26.04.2007 to be returned  
before 10.05.2007**

You are given MATLAB based simulator for simulating BER for 1/3 rate turbo code generated accordingly to the polynomial [7 5].

The given program uses logMAP decoder and allows to simulate BER for different SNR.

Your task is to implement and to compare the performance of logMAP and maxlogMAP decoders. For that you have to:

1. Implement maxlogMAP decoder. You can do that easily by modifying given logMAP decoder. Into final report you should include the working code and e-mail it to me.
2. Simulate the performance of these two decoding algorithms: Given logMAP and your implementations of maxlogMAP. You should send me the figure of the SNR/BER performance curves.

Please collect all the files you are sending to me into one zip file.