

Figure 11: MSE curve for the 4-QAM system (without channel coding) using the optical channel model presented in Figure 2 with fiber length of 50 km and $E_b/N_0 = 30$ dB.

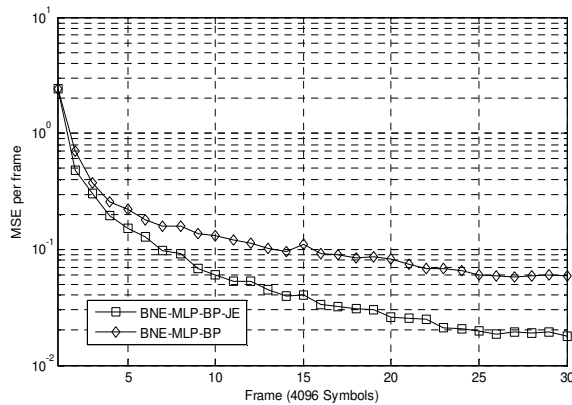


Figure 12: MSE curve for the 4-QAM system (without channel coding) using the optical channel model presented in Figure 2 with fiber length of 100 km and $E_b/N_0 = 30$ dB.