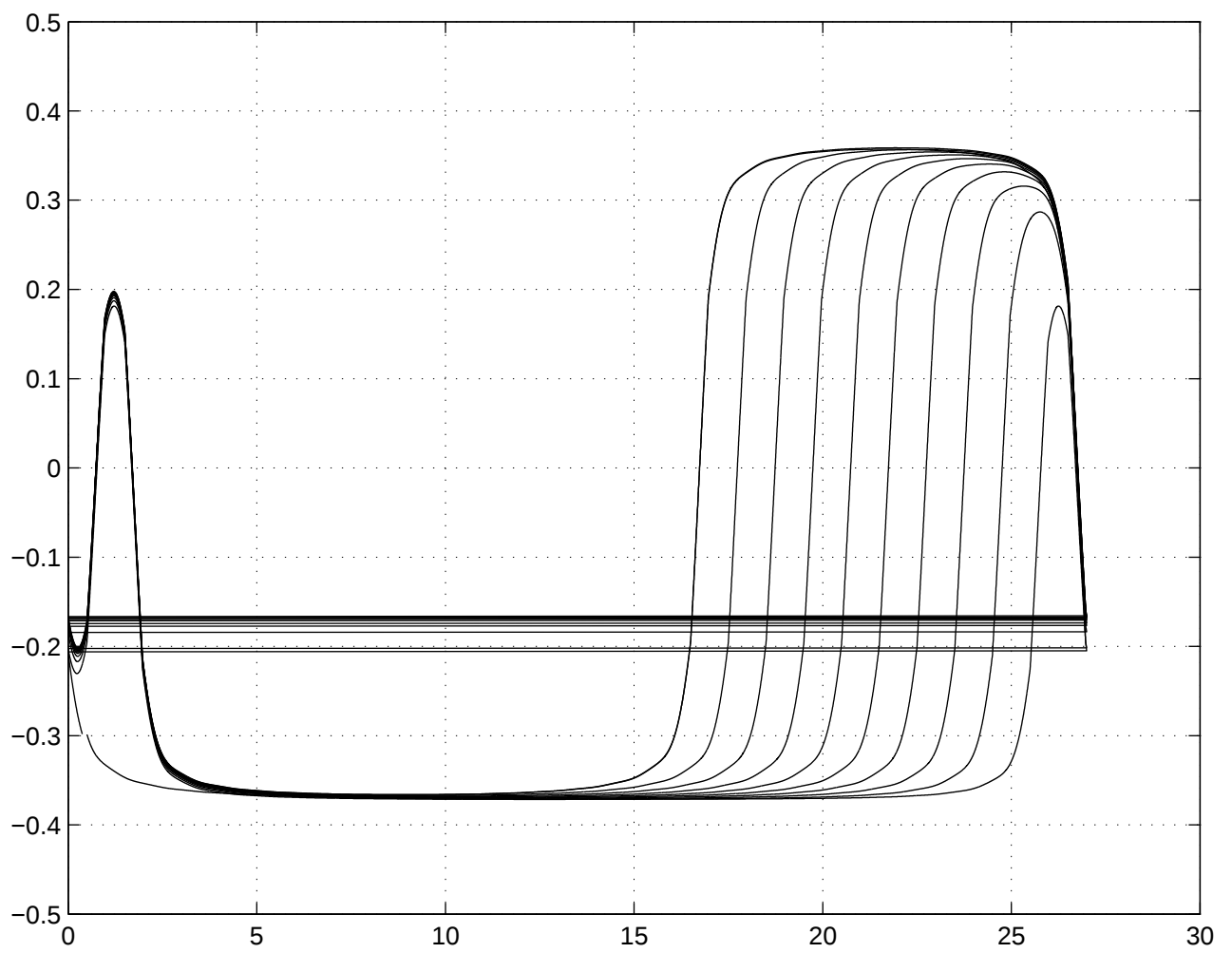
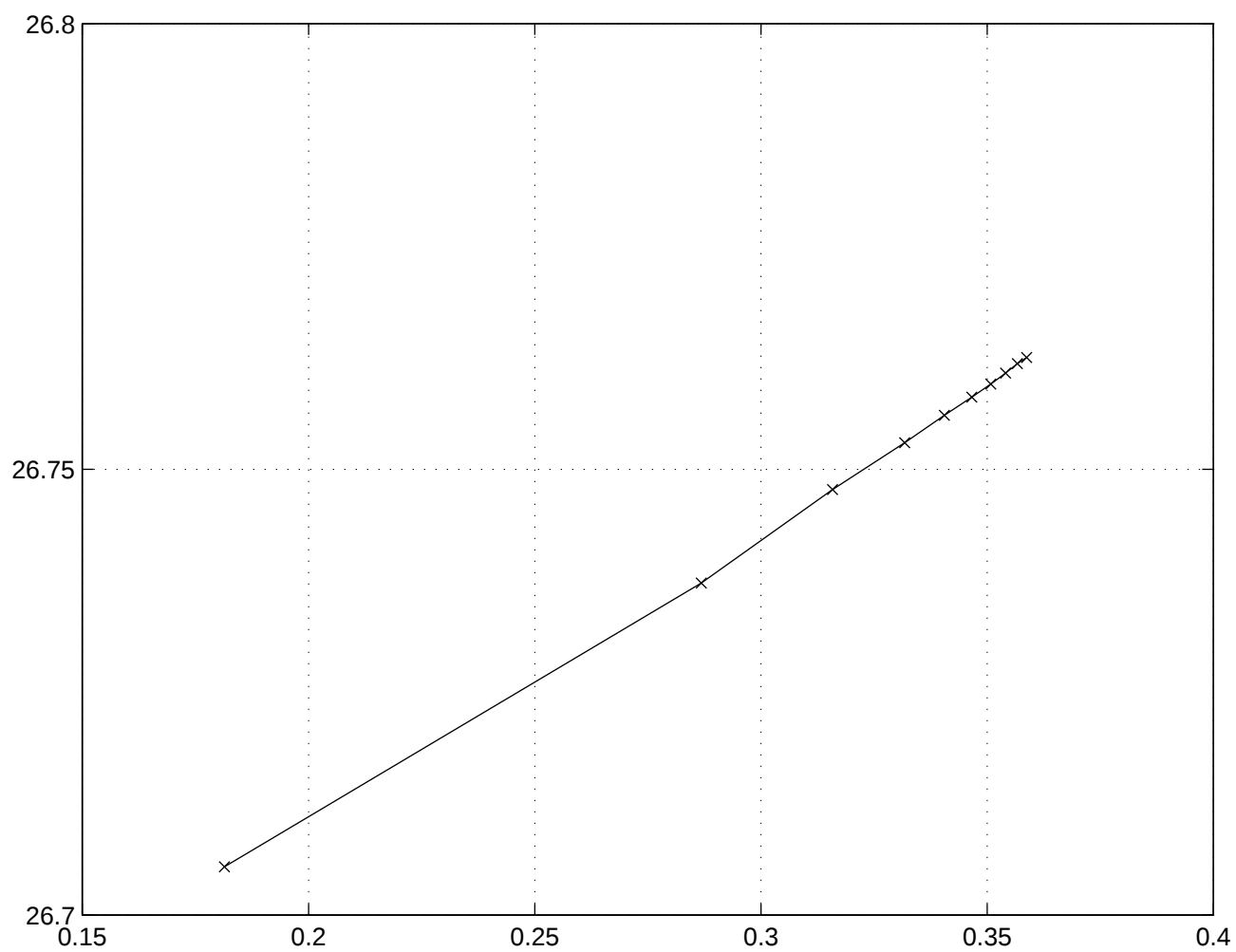
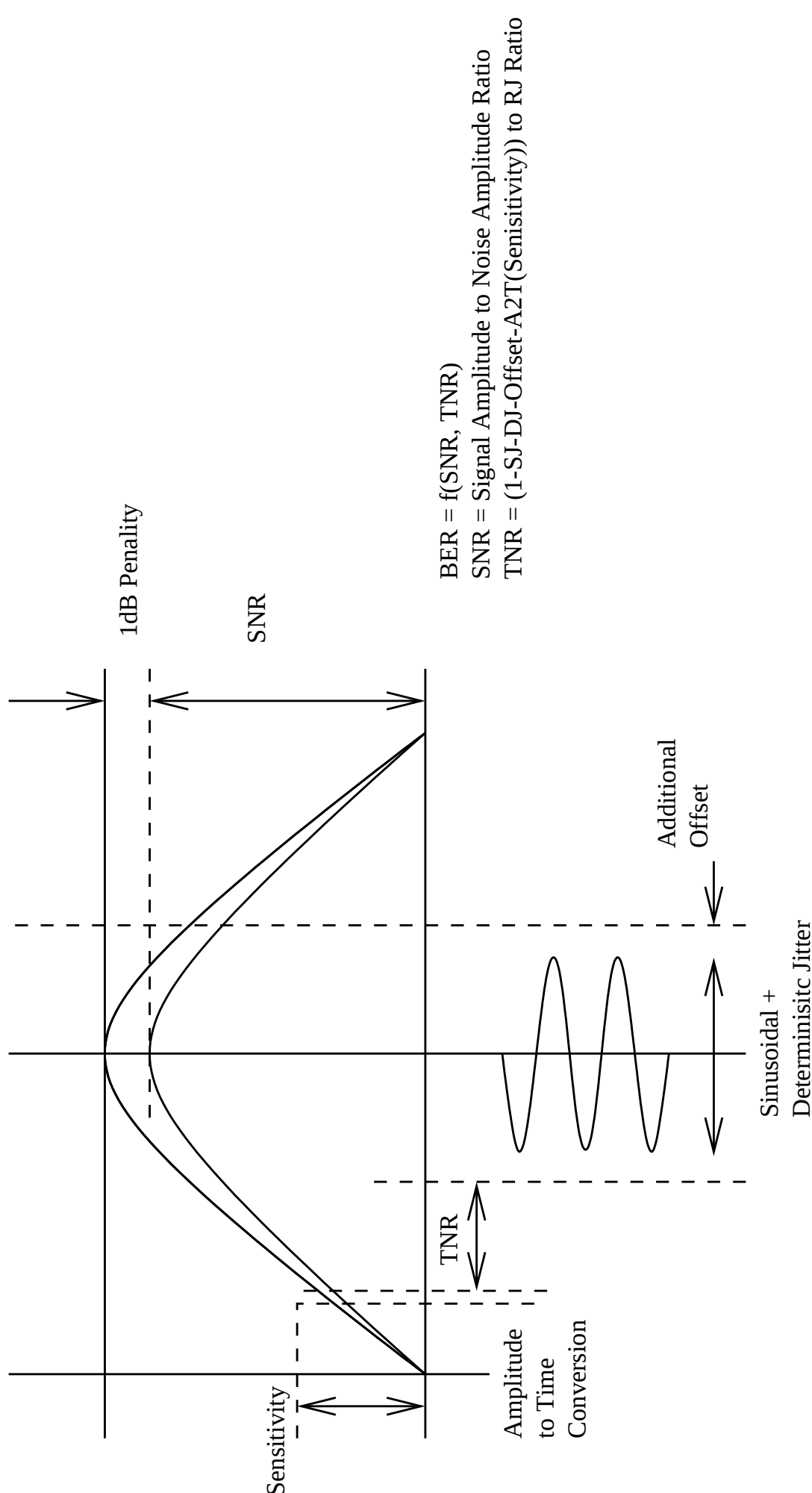
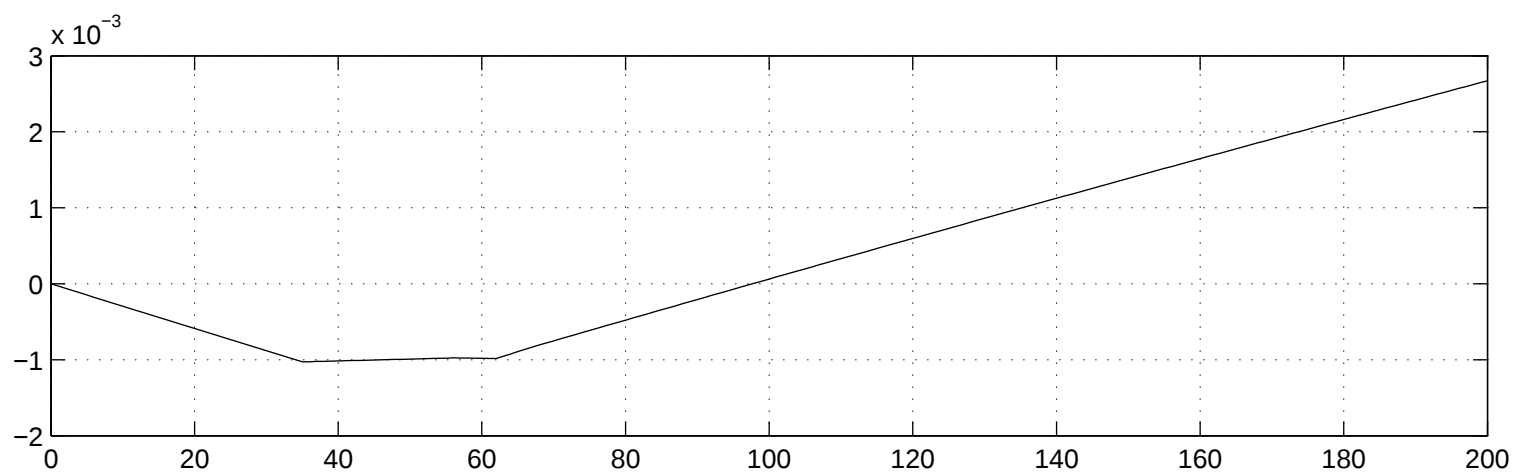
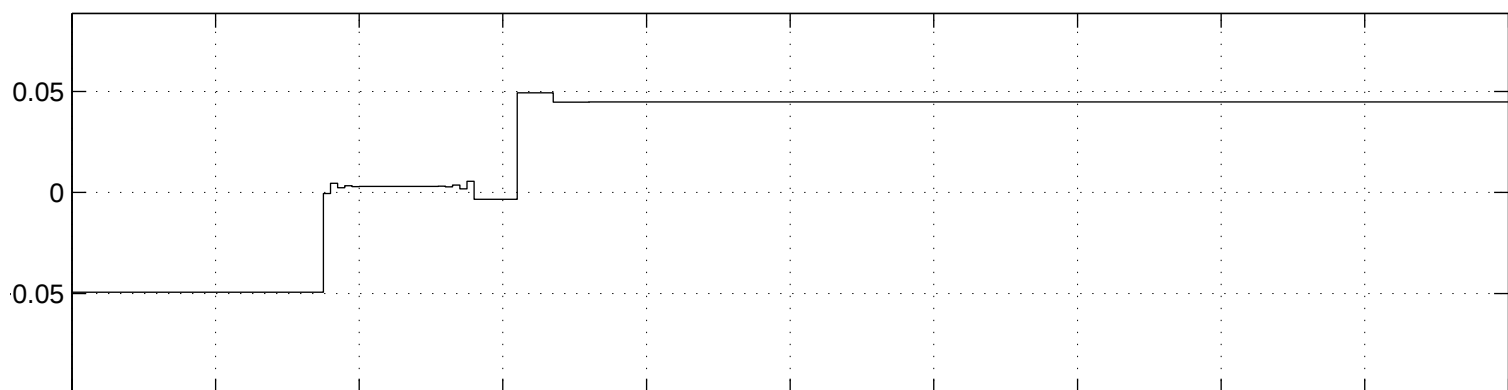
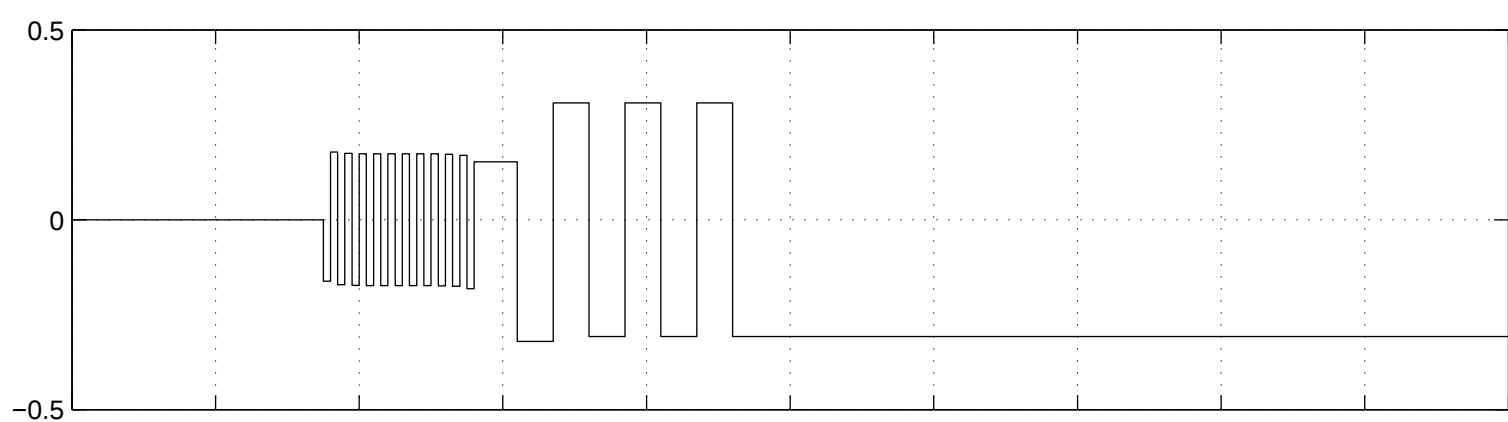
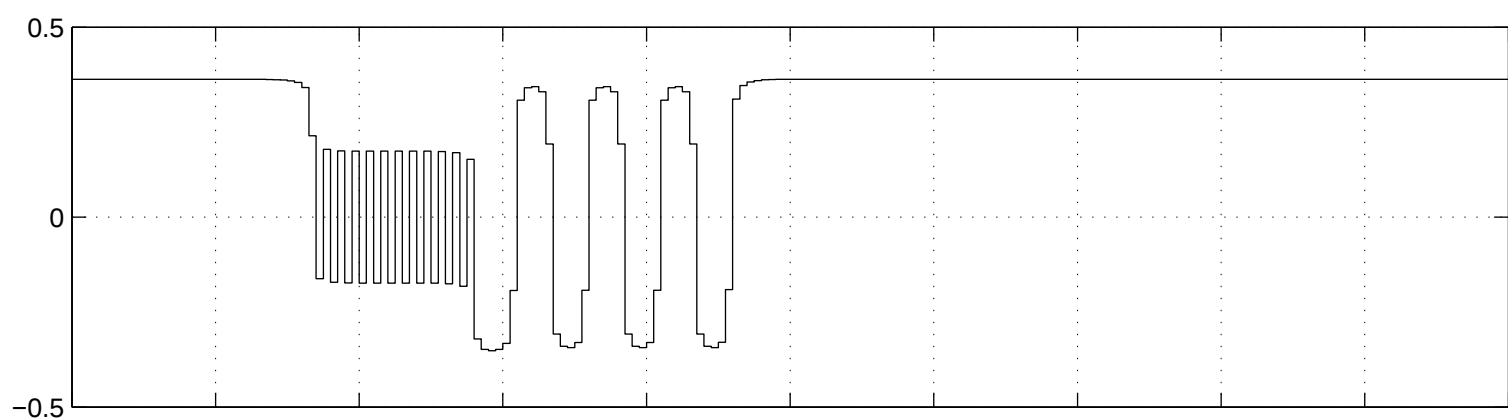




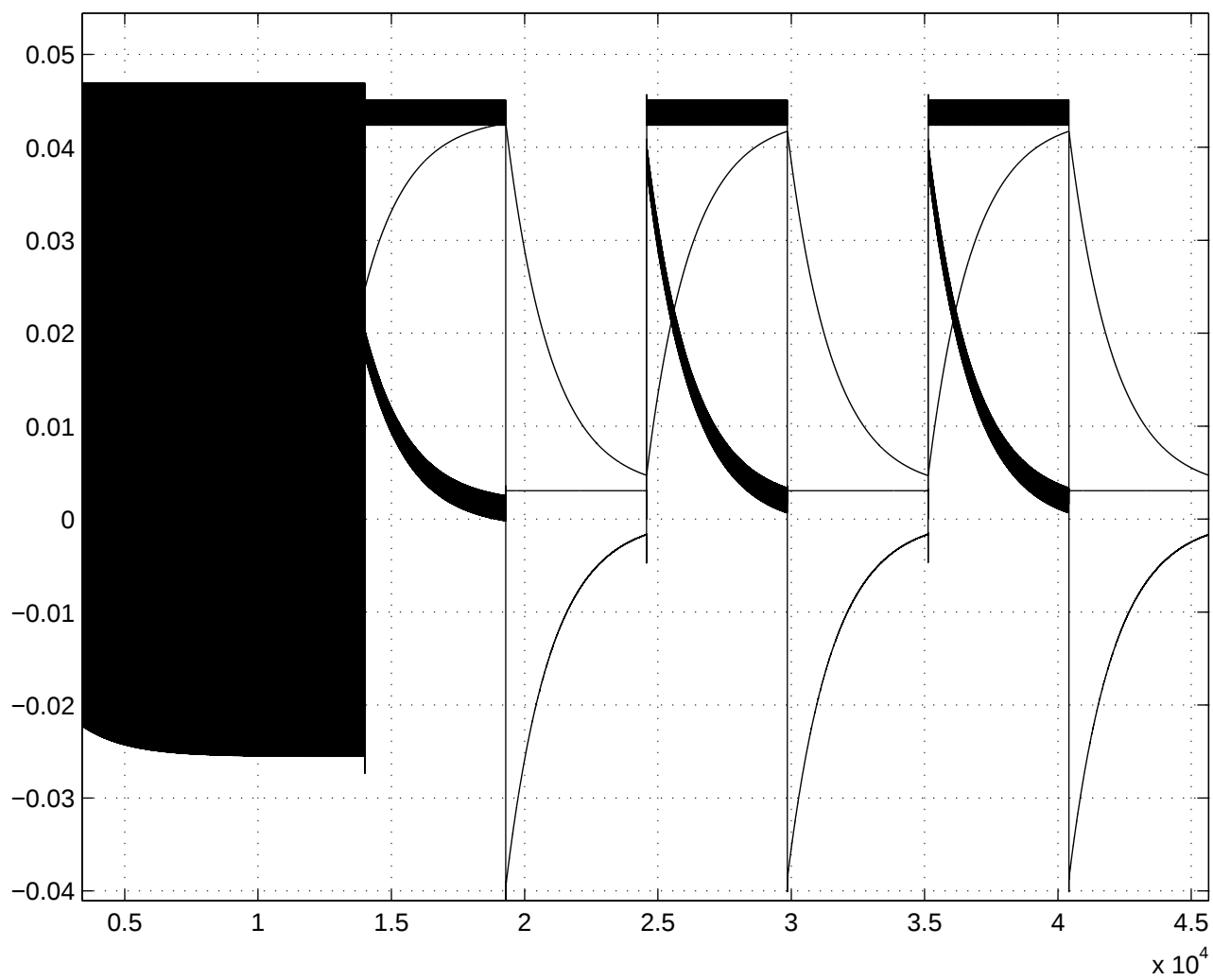


Difference Between 1dB Penalties and BER





Time offset: 0



Jitter Theory

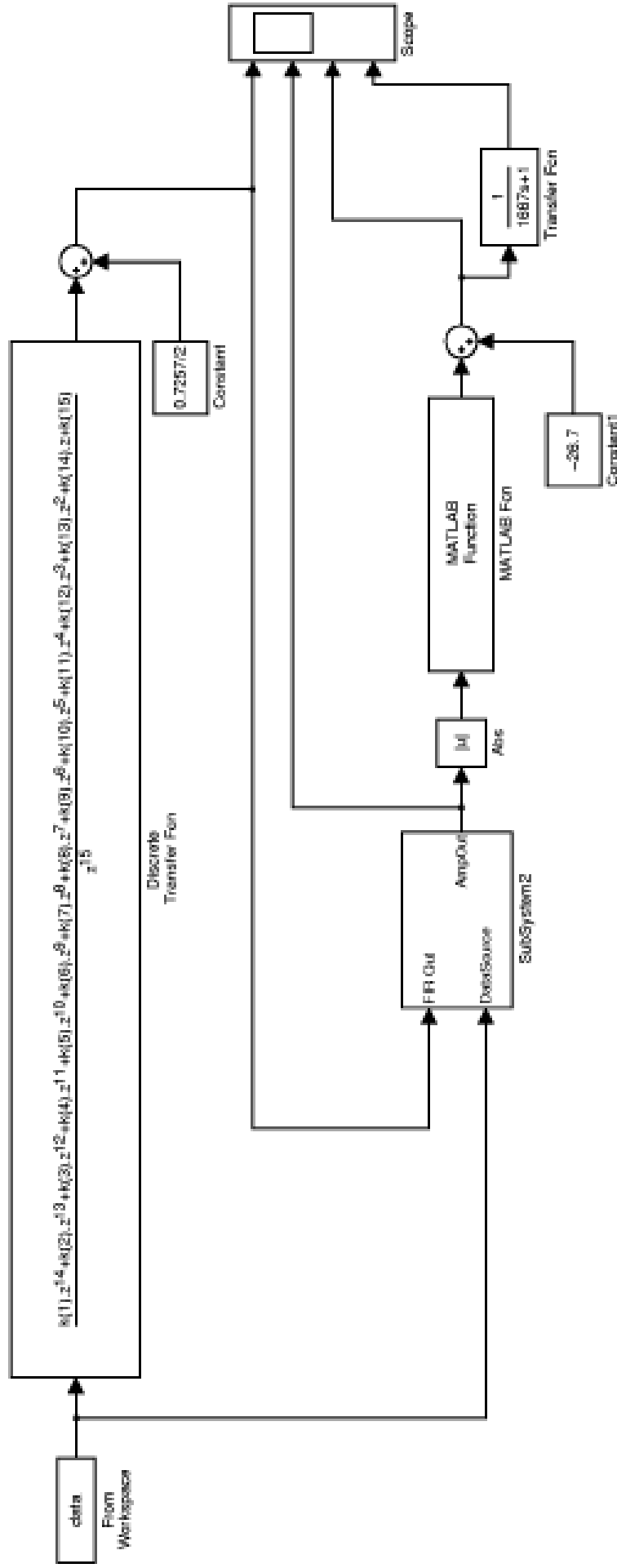
Anthony Sanders
COM ANS

March 12, 2001

$$P_{Ei}(e_{aN}[nT] + \tau) = \frac{1}{4} \operatorname{erfc} \left(\frac{g_N(e_{aN}[nT] + \tau) + \sum_{k=-K}^K a_{n-k} g_N(kT + e_{aN}[nT] + \tau) - \frac{1}{2} g_N(0)}{\sqrt{(N_0)}} \right) + \frac{1}{4} \operatorname{erfc} \left(\frac{\frac{1}{2} g_N(0) - \sum_{k=-K}^K a_{n-k} g_N(kT + e_{aN}[nT] + \tau)}{\sqrt{(N_0)}} \right)$$

$$P_E(e_{aN}[nT] + \tau) = \frac{1}{2^{2K}} \sum_{i=1}^{2^{2K}} P_{Ei}(e_{aN}[nT] + \tau)$$

$$\tilde{P}_E = \int_{-\infty}^{\infty} P_E(e_{aN}[nT] + \tau) p(e_{aN}[nT]) d e_{aN}[nT]$$



Penalty for Additional 0.15UI SJ, with Offset

