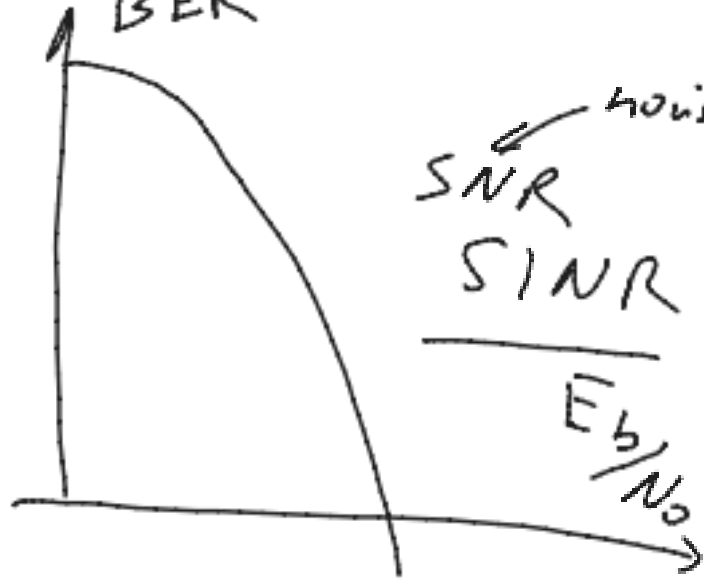
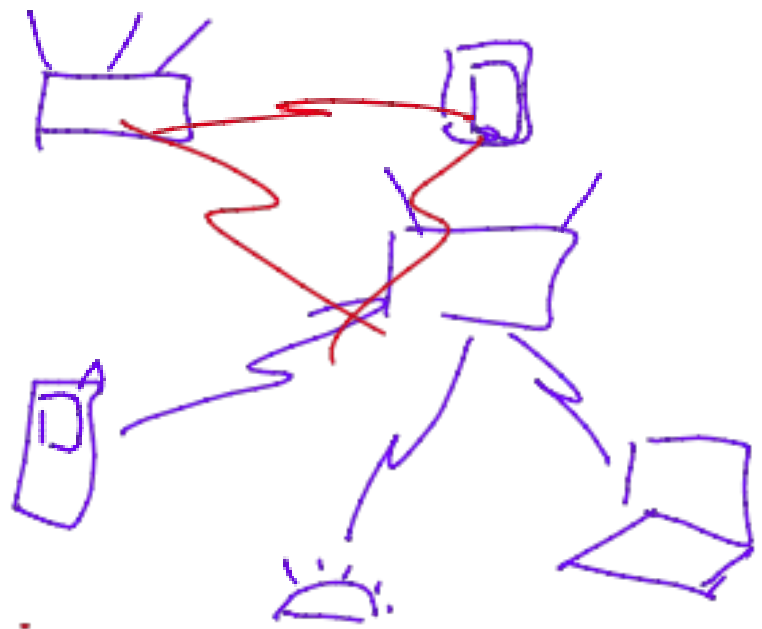


Security protocol overhead

Mobile Comm.
BER



SNR
SINR
Noise = noise + interference
↓
↓ channel atmosphere microwave
↓
 E_b/N_0
= Energy/bit



interference → retransmission
(- packet loss
- out of range)

$$\underline{\text{RSSI}} = P_R - 60 \text{ dB}_m$$

- SNIR

$$\begin{array}{r} - 30 \text{ dB} \\ \hline - 90 \text{ dB}_m \end{array}$$

BER for BPSK modulation without fading and with Rayleigh-fading

Fade margin M for $BER=10^{-3}$ is 17 dB

