

$$R \leq B \log_2 (1 + T)$$



Correct
reception
throughput
"good put"



Bandwidth



SNR
(in linear
scale)

Exercise: Given 20 MHz of BW,

Noise power = -100 dBm. If at 1 m, the received
signal power = -50 dBm. What is the theoretical

maximum goodput at 100 m (free-space channel) and
at 500 m?