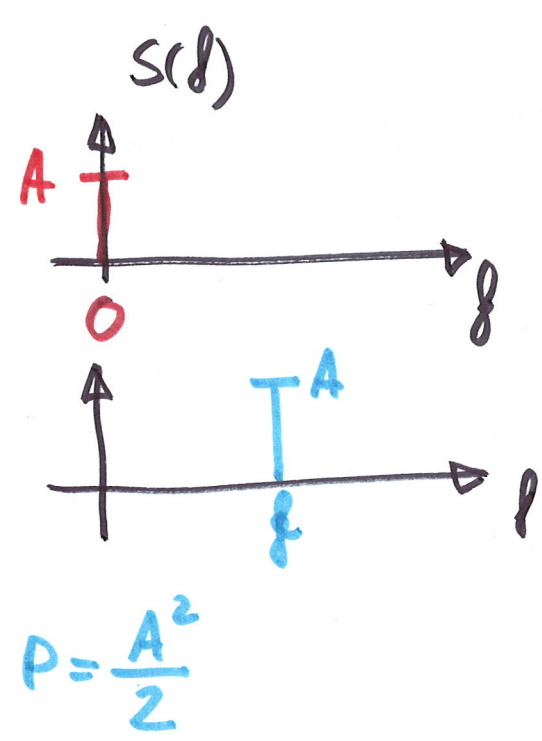
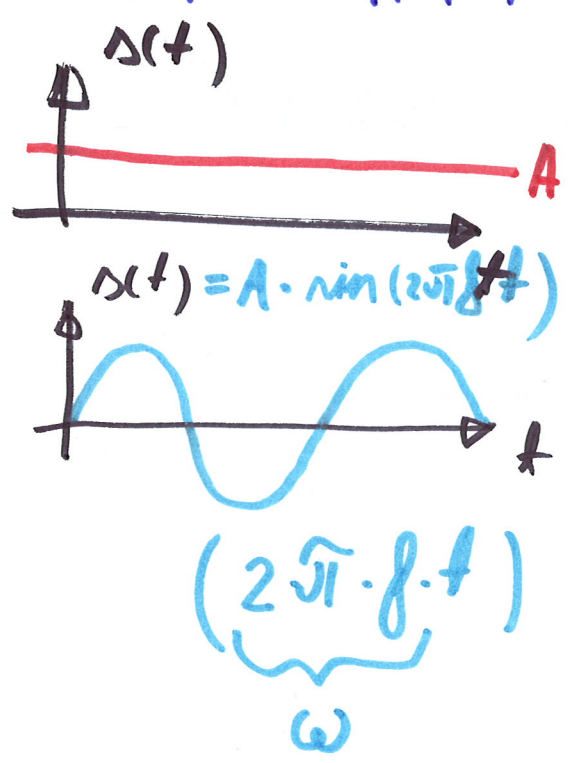


FFT ↔ IFFT



RIBALAIUS $B = f_{max} - f_{min} [Hz]$

Võimsus P

3,6 MW = 3.600.000 W ^{1 μW}
 10 MW $8 \cdot 10^{-16} W (-121 dBm)$ 0,8 fW

$$P_2 = 1 \text{ kW}$$

$$P_1 = 0,1 \text{ mW}$$

$$\frac{1000}{0,0001} = \frac{10^3}{10^{-4}} = 10^7 = \textcircled{5}$$

$$10.000.000$$

$$70 \text{ dB}$$

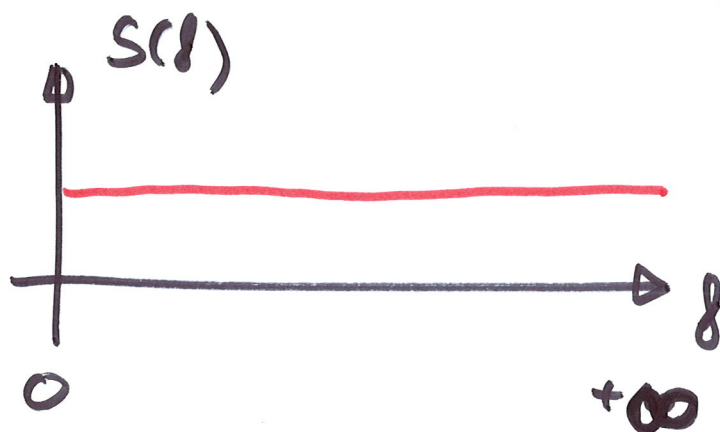
$$1 \text{ kW} = 30 \text{ dBW} = 60 \text{ dBm}$$

$$0,1 \text{ mW} = -10 \text{ dBm}$$

$$\log_a (b \cdot c) = \log_a b + \log_a c$$

$$\log_a (b/c) = \log_a b - \log_a c$$

$$K = 60 - (-10) = \underline{\underline{70 \text{ dB}}}$$



SIGNAAL - MÜRA SUHE

$$\text{SNR} = \frac{S}{N}$$

$$10 \cdot \log \left(\frac{S}{N} \right) [\text{dB}]$$

$$B = 165 \text{ kHz} \quad \text{SNR} = 31 \quad (14,9 \text{ dB})$$

$$C = 1,65 \cdot 10^5 \cdot \log_2 (1 + 31) = 1,65 \cdot 10^5 \cdot 5 = 8,25 \cdot 10^5 [\text{bit/s}]$$

$$0,825 \text{ Mbit/s}$$

⑥

ETHERNET IEEE 802.3

10BASE2

BNC

