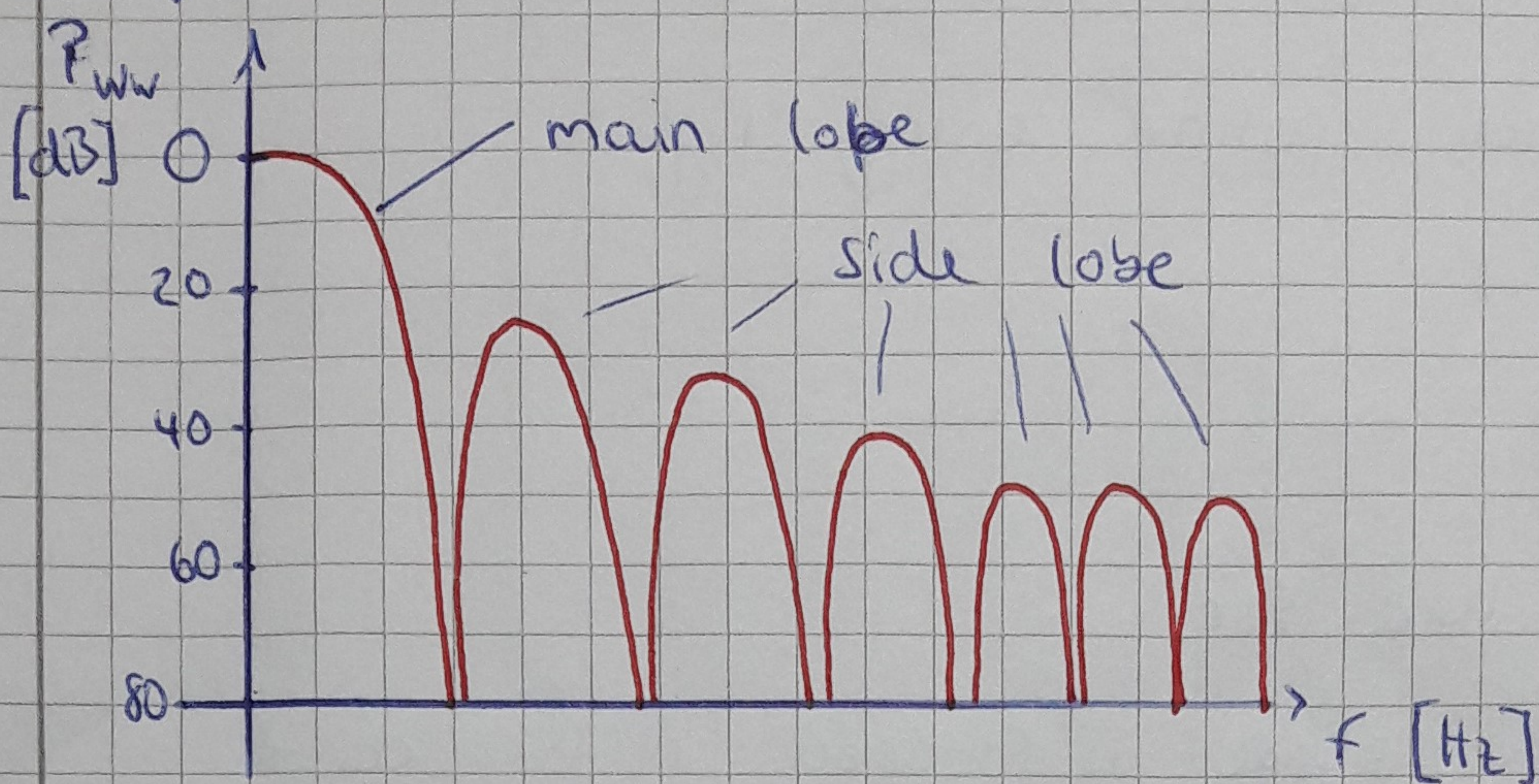


frequency range: (Spectral area)

• logarithmic description



main lobe:

→ ideal: width of the main lobe $\rightarrow 0$

↳ convolution with a dirac-inputs doesn't change the signal

→ a narrow main lobe has got a good spectral resolution

• low pass filtering

side lobe:

→ ideal: minimum light

→ side lobes delay spectral parts of the signal

↳ leakage effect $X_{dB} = 20 \cdot \log(X)$

40 dB $\hat{=}$ 100 times lower amplitude

