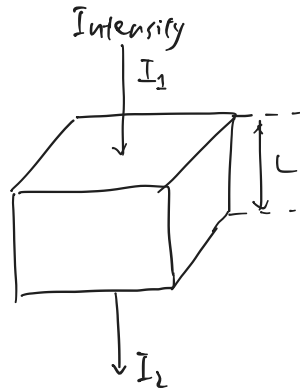


① Attenuation



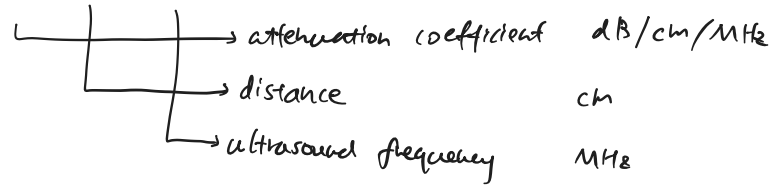
Attenuation

$$= 10 \log \frac{I_1}{I_2}$$

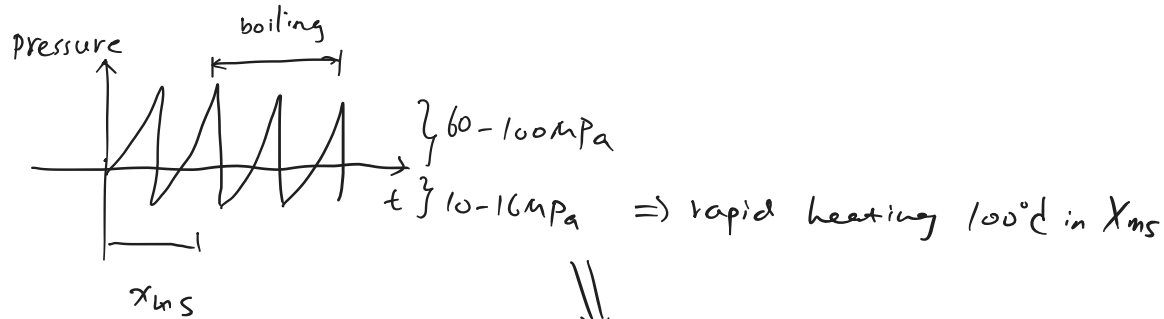
(dB / N_p)

$$1 N_p = 20 \log_{10} e \approx 8.686 \text{ dB}$$

$$= 2 \cdot L \cdot f$$



② Boiling Histotripsy



\Rightarrow rapid heating 100°C in $x \text{ ms}$

\Downarrow

$>$ intrinsic threshold \Rightarrow inertial cavitation