

Calcualtion of linewidth and FSR

Parameter

- Cavity Length: $L = 0.48 \text{ m}$
- Speed of light: $c = 299792458 \text{ m/s}$
- Finesse: $F = 107.000$ aus [Finesse assessment for vacuum](#)

Freier Spektralbereich: $FSR = \frac{c}{2 \cdot L} \rightarrow FSR = 312.284 \text{ MHz}$

Linienbreite: $\Delta \nu = \frac{FSR}{F} \rightarrow \Delta \nu = 2.927,88 \text{ Hz}$

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Last update: **2017/10/24 11:10**

