

optics shapes fit

## 1 Ordres de grandeur

1.  $1\text{GHz} = 4.13 \text{ E-6 eV} = 0.05\text{K} = 0.03 \text{ cm}^{-1}$
2.  $1\text{K} = 20.8 \text{ GHz} = 0.7 \text{ cm}^{-1}$
3.  $1\text{cm}^{-1} = 30 \text{ GHz} = 1.4\text{K}$
4.  $1\text{ppm (diamant)} = 1.5 \cdot 10^{17} \text{ cm}^{-3}$