flat intensity with sharp (~3 pm) absorption line (Voigt) of optical density $\sigma S = 1$

$\text{ILFs with different widths } \delta\lambda$

measured optical density $\tau = \log\frac{I_0 \otimes ILF}{I \otimes ILF}$

sensitivity - spectral resolution relation

$\text{ILF width} \approx \text{abs. line width}$

$\text{sensitivity} \approx \text{peak effective absorption cross section} [\text{a.u.}]$