$$\text{Intensity } I(\lambda) \quad = \quad C - De^{-(\lambda-\lambda_0)^2/2\sigma^2}$$

$$\sigma \quad = \quad \frac{\text{FWHM}}{2.35}$$

$$\chi^2 \quad \equiv \quad \sum_i \frac{(\text{model}_i \ - \ \text{data}_i)^2}{(\text{uncertainty}_i)^2}$$

$$\text{dof} \quad \equiv \quad (\text{number of measurements }) - (\text{number of parameters in fit})$$

$$\text{reduced } \chi^2 \quad = \quad \frac{\chi^2}{\text{dof}}$$