

$$n_{data} := \begin{bmatrix} 4 \\ 50 \\ 500 \\ 100 \end{bmatrix} \quad D_{data} := \begin{bmatrix} 0.13449 \\ 0.22322 \\ 0.3237 \\ 0.255 \end{bmatrix} \quad N_0 := 4779$$

$$D_{-1}(n, D_1, \gamma) := D_1 \cdot \left( \frac{n}{N_0} \right)^\gamma$$

$$D_{-2}(n, D_1, \gamma) := D_1 \cdot (1 - e^{-\gamma \cdot n}) \quad \gamma = \frac{\beta}{\alpha}$$

$$D_1 := 1 \quad \gamma := 1 \quad \text{Schätzwerte}$$

$$\begin{bmatrix} D_{1-1} \\ \gamma_{-1} \end{bmatrix} := \text{genfit} \left( n_{data}, D_{data}, \begin{bmatrix} D_1 \\ \gamma \end{bmatrix}, D_{-1} \right) = \begin{bmatrix} 0.487 \\ 0.175 \end{bmatrix}$$

$$\begin{bmatrix} D_{1-2} \\ \gamma_{-2} \end{bmatrix} := \text{genfit} \left( n_{data}, D_{data}, \begin{bmatrix} D_1 \\ \gamma \end{bmatrix}, D_{-2} \right) = \begin{bmatrix} 0.267 \\ 0.174 \end{bmatrix}$$

$$D1_{regr}(n) := D_{-1}(n, D_{1-1}, \gamma_{-1}) \quad D2_{regr}(n) := D_{-2}(n, D_{1-2}, \gamma_{-2})$$

$$n := 0, 5 \dots 500$$

