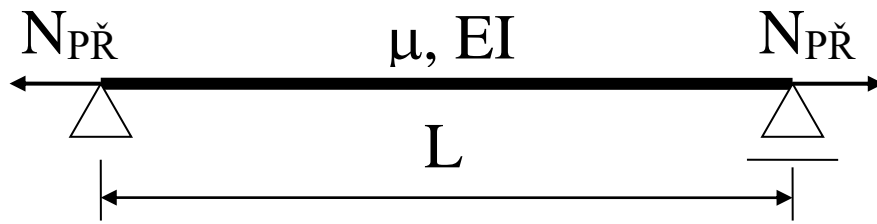
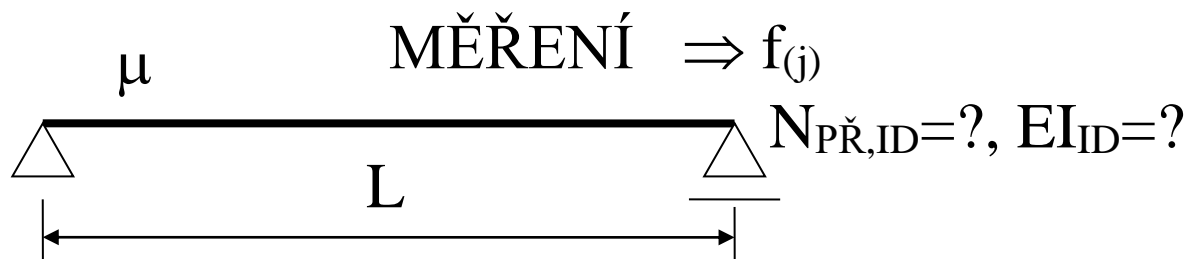


PRIZMATICKÝ PRUT S NORMÁLOVOU SILOU $N_{PŘ}$



$$N_{PŘ} = \mu \left(\frac{2 f_{(j)} L}{j} \right)^2 - \left(\frac{j \pi}{L} \right)^2 EI$$

PRINCIP IDENTIFIKACE $N_{PŘ}$, EI



$$N_{PŘ, ID} + \left(\frac{j \pi}{L} \right)^2 EI_{ID} = \mu \left(\frac{2 f_{(j)} L}{j} \right)^2$$

$$\begin{bmatrix} 1 & \left(\frac{1 \pi}{L}\right)^2 \\ \vdots & \vdots \\ 1 & \left(\frac{j \pi}{L}\right)^2 \\ \vdots & \vdots \\ 1 & \left(\frac{n \pi}{L}\right)^2 \end{bmatrix} \begin{Bmatrix} N_{\text{PŘ, ID}} \\ EI_{\text{ID}} \end{Bmatrix} = \begin{Bmatrix} \mu \left(\frac{2 f_{(1)} L}{1}\right)^2 \\ \vdots \\ \mu \left(\frac{2 f_{(j)} L}{j}\right)^2 \\ \vdots \\ \mu \left(\frac{2 f_{(n)} L}{n}\right)^2 \end{Bmatrix}$$

$$[A] \{x\} = \{y\}$$

GAUSS – MARKŮV TEORÉM

$$[A]^T [A] \{x\} = [A]^T \{y\}$$