## **BEAM SHAPING DEVICES**

## **Devices**

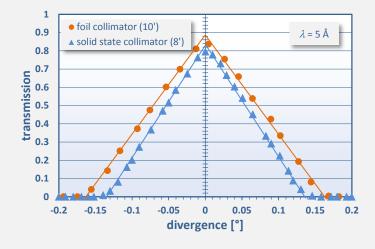
- 1d & 2d slits
- slits with vacuum casing
- foil collimators
- solid state collimators
- lamellar solid state collimators

## **Features of collimators**

- Soller & radial collimators
- collimation as small as 3' (1 mrad)
- high transmission
- foils made from Mylar, Kapton, etc.
- solid state collimators using Si wafers:
  - $t_{Wafer}$  ≥ 0.1 mm
  - typical length: 10 30 mm
  - typical cross-sections:  $10 \times 10 \text{ mm}^2 \rightarrow 200 \times 200 \text{ mm}^2$
- inclusion of magnetic guide field



## **Neutron beam divergence of collimators**





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