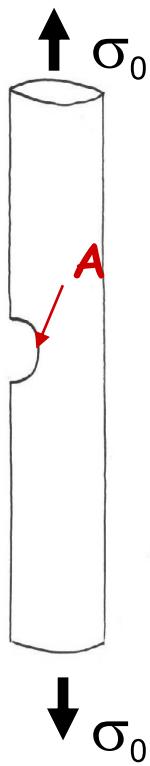


# Hints

$$\sigma_{local} = \left(1 + 2\sqrt{\frac{a}{r}}\right) \sigma_0$$

$$\sigma_{local} = \sigma_{th}$$

Case 1:  $a = r = 1$  micron



$$\sigma_{local1} = ?$$

$$1\text{\AA} = 10^{-10}\text{m} = 10^{-4}\mu\text{m}$$

$$\sigma_{local2} = ?$$

$$\sigma_{local} = \sigma_{th} = \frac{E}{10}$$

$$\sigma_{o1} = \frac{E}{30}$$

$$\sigma_{o2} = \frac{E}{460}$$

