

## ES N 1 PAG 645

plutonio 239 contiene  $n = 94$  protoni e  $n = 145$  neutroni

$$q^+ = e = 1,67 \times 10^{-19} \text{ C}$$

$$Q = 94 \times 1,67 \times 10^{-19} \text{ C} = 1,5 \times 10^{-17} \text{ C}$$

## N 12 PAG 652

$$q = 5,0 \mu\text{C}$$

$$\overline{AB} = 2l \quad l = 6 \text{ cm}$$

$$\overline{AB} = 12 \times 10^{-2} \text{ m}$$

$$q'_- = -4 \mu\text{C} \quad m_{q^-} = 9 \text{ mg}$$

$$f = 1,0 \text{ kHz} = 1000 \text{ Hz}$$

$$\sigma = ?$$

$$\triangle AMC \simeq \triangle CA'B'$$

$$d : \sqrt{d^2 - l^2} = F_{\text{ris}} : F \quad F_{\text{ris}} = \frac{F d}{\sqrt{d^2 - l^2}}$$

$$F = K_0 \frac{qq'}{d^2}$$

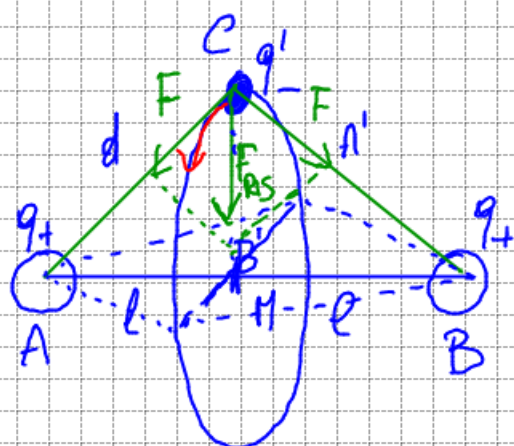
$$F_{\text{ris}} = 2F \Rightarrow$$

$$2K_0 \frac{qq'}{d^2} = \frac{K_0 qq'}{d \sqrt{d^2 - l^2}} \quad 2 = \frac{d}{\sqrt{d^2 - l^2}}$$

$$4(d^2 - l^2) = d^2$$

$$3d^2 = 4l^2$$

$$d = \frac{2l}{\sqrt{3}} = \frac{24 \times 10^{-2} \text{ m}}{\sqrt{3}} = 0,07 \text{ m}$$



$$\overline{CA} = d \quad \overline{CH} = \sqrt{d^2 - l^2}$$