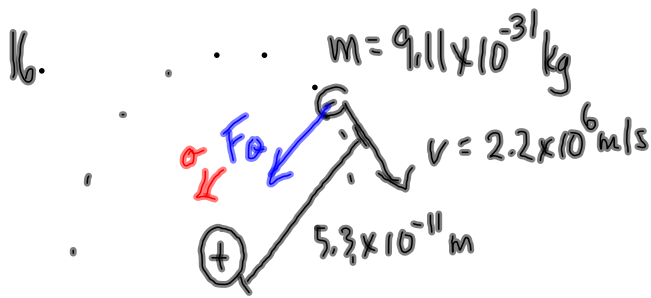


From Hw (PP/559 + 566)



The electrostatic force between the electron and the proton is the force that provides the centripetal force.

$$\vec{F}_{\text{net}} = m\vec{a}$$

$$F_c = \frac{mv^2}{r}$$

$$F_c = \frac{(9.11 \times 10^{-31} \text{ kg})(2.2 \times 10^6 \text{ m/s})^2}{5.3 \times 10^{-11} \text{ m}}$$

TO DO

$$F_c = 8.3 \times 10^{-8} \text{ N}$$

- ① PP/566
- ② p571/21-28
- ③ Centripetal Force Lab.

Group LAB

- title section
- Sample graph (v-t, F-t)
- data table
- Sample calculation of max force + % error (include a FBD)