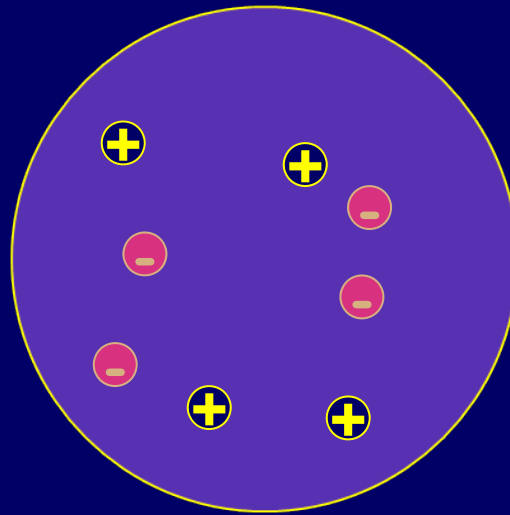


Early Model for Atom

- **Plum Pudding**

- positive and negative charges uniformly distributed throughout the atom like plums in pudding



But how can you look inside an atom 10^{-10} m across?

Light (visible)

$$\lambda = 10^{-7} \text{ m}$$

Electron (1 eV)

$$\lambda = 10^{-9} \text{ m}$$

Helium atom

$$\lambda = 10^{-11} \text{ m}$$