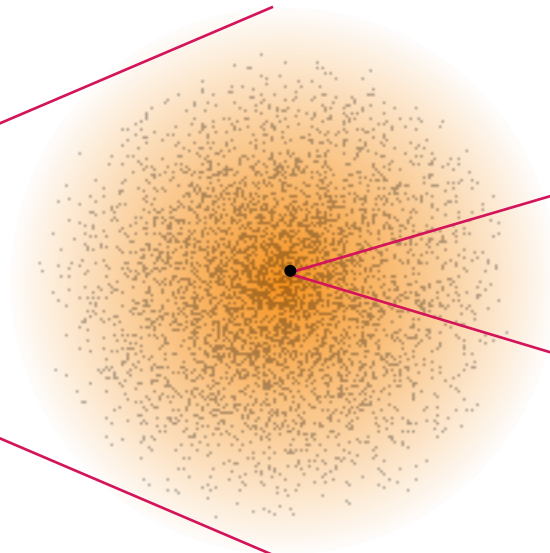
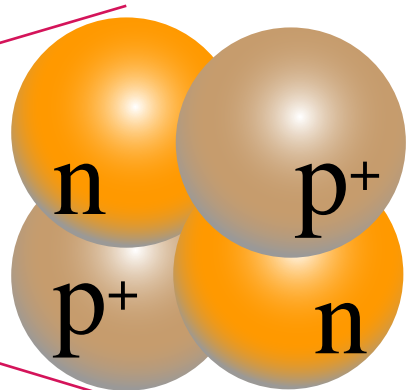


100 million atoms
could fit in this dot



size of atom $\sim 10^{-10}$ m



nucleus is 100,000 times smaller
but has almost all the mass