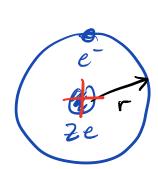
$$E_{n} = -\frac{1}{2n^{2}} \left( \frac{2e^{2}}{4\pi\epsilon_{0}} \right)^{2} \frac{u}{\pi^{2}}$$
 energy eigenstates
$$Q = \frac{4\pi\epsilon_{0} k^{2}}{u Z e^{2}}$$
 modified Behr radius

$$Q = \frac{4\pi \& h^2}{u Z e^2}$$



$$\frac{mv^2}{r} = F_{etec}$$

V = constant speed 3 Uniform V = Constant radius & Circular motion

$$\frac{M_eV^2}{r} = \frac{1}{4\pi\epsilon_0} \frac{Ze^2}{r^2} V = \frac{Ze^2}{4\pi\epsilon_0 r m_e}$$

r2 = 
$$\frac{n^2h^2}{m_e^2}$$
 4TE mer

$$r = \frac{n^2h^24\pi40}{m_e^2e^2} = \frac{n^2(4\pi2h^2)}{m_e^2e^2}$$

Bohr Me

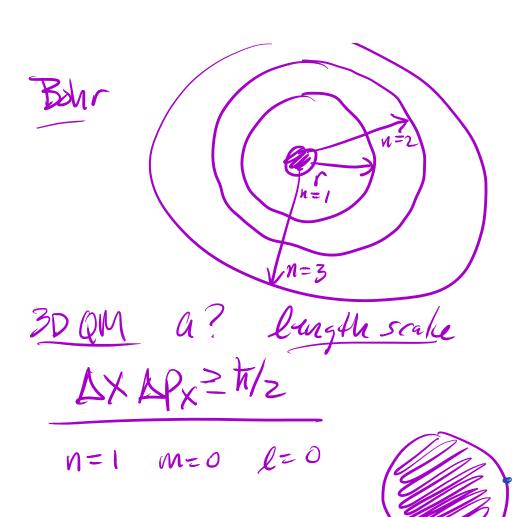
HIndm

$$A = \frac{4\pi\epsilon_0 h^2}{u^2 e^2} = \frac{90}{2}$$

$$A_0 = \frac{4\pi\epsilon_0 h^2}{u^2 e^2} = \frac{90}{2}$$

$$A_0 = \frac{4\pi\epsilon_0 h^2}{u^2 e^2}$$

Meaning of a (3D QM) &r (Bohr)



na