Hsys =
$$\frac{P_1^2}{2m_1} + \frac{P_2^2}{2m_2} + V(\vec{r_1}, \vec{r_2})$$

Y Central potential

 $V(\vec{r_1}, \vec{r_2}) = V((\vec{r_2}, \vec{r_2}))$

Hsys = $\frac{|P_{10}+|^2}{2M_1} + \frac{|P_{10}+|^2}{2M_1}$

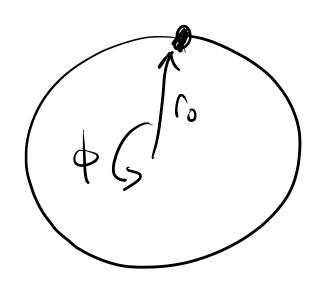
Rem = $\frac{|P_{10}+|^2}{|P_{10}+|^2} + \frac{|P_{10}+|^2}{|P_{10}+|^2}$

Nucleus & electrown

|MeV = $\frac{|P_{10}+|^2}{|P_{10}+|^2}$

Hydrine = $\frac{|P_{10}+|^2}{|P_{10}+|^2} + V(r)$

Grand Hall Ener) = Ener | Ener | $\nabla^2 = \frac{1}{r^2} \frac{d}{dr} \left(r^2 \frac{d}{dr} \right) + \frac{1}{r^2 \sin \theta} \frac{d}{d\theta} \left(\sin \theta \frac{d}{d\theta} \right)$ $+ \frac{1}{r^2 \sin^2 \theta} \frac{d^2}{d\theta^2} \quad \text{Laplacian in spherical}$ $\left(-\frac{t^2}{2m} \nabla^2 + V(r) \right) \Psi(r, \theta, \phi) = E \Psi(r, \theta, \phi)$



partile on a ring

Debrief

$$\frac{\int^2 \psi}{\int d\phi^2} = \frac{\left[2v_0^2 M \left(E - V_0\right)\right]}{\int t^2} \psi$$
Constant > 0

$$\frac{1}{2}$$

$$\frac{d^2}{d\phi^2} = -B^2$$

2T periodicity -> JB = m=0, II, tz.

$$M = 0, \pm 1, \pm 2, \dots$$

$$\psi(\phi) = \psi(\phi + 2n\pi)$$

$$\langle 4|4\rangle = \int_{0}^{2\pi} \psi^{*} \psi d\phi$$

$$= |C|^2 2\pi = 1$$