Particle on a Ring

$$B/C$$
 $\theta = \theta_0$, $r = r_0$

$$\frac{-\frac{\hbar^2}{2ur_0^2}}{2ur_0^2}\frac{\int^{2\psi}}{d\phi^2}+V(r_0)\psi=E\psi$$

$$\psi(r,\theta,\phi) = \psi(r_0,\theta,\phi) = \overline{\psi}(\phi)$$

$$-\frac{t^2}{2\mu r_0^2} \frac{\sqrt[3]{2}}{\sqrt[3]{2}} = E \overline{p}$$

$$-\frac{\hbar^2}{2I}\frac{d^2\overline{\Phi}}{d\phi^2} = E\overline{\Phi}$$
particle
on
a ring.

operator equ.
$$\Rightarrow \hat{Q} = E \bar{P}$$

$$X = r_0 \sin \theta \cos \theta$$

$$Y = r_0 \sin \theta \sin \theta$$

$$L_z \propto \frac{\partial}{\partial \phi} \qquad L_z^2 \propto \frac{\partial^2}{\partial \phi^2}$$

$$-\frac{t^2}{2I} \frac{\partial^2}{\partial \phi^2} = E$$

 $d L^2 / 2 | lm \rangle = m^2 h^2 / lm \rangle$