$$I = mr^{2}\dot{\theta} \qquad (argular momentum)$$

$$F(r) = m(\ddot{r} - r\dot{\theta}^{2}) \qquad (Central for 0)$$

$$LDio B-tilde Hib Etales (B-1) (B-$$

$$m\left[\left(\frac{d^{2}r}{d\theta^{2}}\left(\frac{L}{mr^{2}}\right)^{2} + \frac{dr}{d\theta}\frac{d}{d\theta}\left(\frac{L}{mr^{2}}\right)\frac{L}{mr^{2}}\right) - r\left(\frac{L}{mr^{2}}\right)^{2}\right] = F(r)$$

$$\frac{d^{2}r}{d\theta^{2}}\frac{L^{2}}{r^{4}} + \frac{dr}{d\theta}\frac{d}{d\theta}\left(\frac{L}{r^{2}}\right)\frac{L}{r^{2}} - r\frac{L^{2}}{r^{4}} = mF(r)$$

$$\frac{d^{2}r}{d\theta^{2}} + r^{2}\frac{dr}{d\theta}\frac{d}{d\theta}\left(\frac{L}{r^{2}}\right) - r = \frac{mr^{4}}{L^{2}}F(r)$$

比耐方程