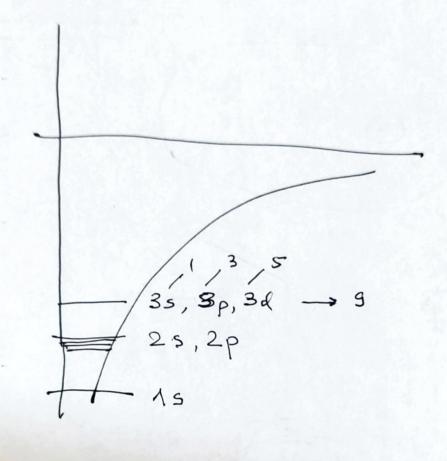




X, Y, Px, Py $E = \frac{p'2}{2m} - \frac{2}{r} = const$ $L_z = Pxy - Pyx = const$ x(t), y(t) $P_k(t), Py(t)$

Firefox



$$H = \frac{P^{2}}{2m} - \frac{X}{r} = -|E| = \frac{P^{2}}{2m}$$

$$\frac{P^{2} + P^{2}}{2m} = \frac{X}{r} - \frac{1}{r} = \frac{2m\alpha}{P^{2} + P^{2}}$$

$$L = P \cdot \vec{r} - H$$

$$S' = \int dt L = \int \vec{p} \cdot \vec{r} dt - \int H dt = \frac{1}{r} = \frac{1}{r} \cdot \vec{r} d\vec{r} - Et$$

$$S' = S - Et$$

$$dS = dS - Edt$$

$$dS = \vec{p} \cdot d\vec{r} + \vec{r} \cdot d\vec{p} - \vec{r} \cdot d\vec{p} = \frac{1}{r} = \frac{1}{r} \cdot (\vec{p} \cdot \vec{r}) - \vec{r} \cdot d\vec{p} = \frac{1}{r} \cdot (\vec{p} \cdot \vec{r}) - \vec{r} \cdot d\vec{p} = \frac{1}{r} \cdot (\vec{p} \cdot \vec{r}) - \vec{r} \cdot d\vec{p} = \frac{1}{r} \cdot (\vec{p} \cdot \vec{r}) - \vec{r} \cdot d\vec{p} = \frac{1}{r} \cdot (\vec{p} \cdot \vec{r}) - \vec{r} \cdot d\vec{p} = \frac{1}{r} \cdot (\vec{p} \cdot \vec{r}) - \vec{r} \cdot d\vec{p} = \frac{1}{r} \cdot (\vec{p} \cdot \vec{r}) - \vec{r} \cdot d\vec{p} = \frac{1}{r} \cdot (\vec{p} \cdot \vec{r}) - \vec{r} \cdot d\vec{p} = \frac{1}{r} \cdot (\vec{p} \cdot \vec{r}) - \vec{r} \cdot d\vec{p} = \frac{1}{r} \cdot (\vec{p} \cdot \vec{r}) - \vec{r} \cdot d\vec{p} = \frac{1}{r} \cdot (\vec{p} \cdot \vec{r}) - \vec{r} \cdot d\vec{p} = \frac{1}{r} \cdot (\vec{p} \cdot \vec{r}) - \vec{r} \cdot d\vec{p} = \frac{1}{r} \cdot (\vec{p} \cdot \vec{r}) - \vec{r} \cdot d\vec{p} = \frac{1}{r} \cdot (\vec{p} \cdot \vec{r}) - \vec{r} \cdot d\vec{p} = \frac{1}{r} \cdot (\vec{p} \cdot \vec{r}) - \vec{r} \cdot d\vec{p} = \frac{1}{r} \cdot (\vec{p} \cdot \vec{r}) - \vec{r} \cdot d\vec{p} = \frac{1}{r} \cdot (\vec{p} \cdot \vec{r}) - \vec{r} \cdot d\vec{p} = \frac{1}{r} \cdot (\vec{p} \cdot \vec{r}) - \vec{r} \cdot d\vec{p} = \frac{1}{r} \cdot (\vec{p} \cdot \vec{r}) - \vec{r} \cdot d\vec{p} = \frac{1}{r} \cdot (\vec{p} \cdot \vec{r}) - \vec{r} \cdot d\vec{p} = \frac{1}{r} \cdot (\vec{p} \cdot \vec{r}) - \vec{r} \cdot d\vec{p} = \frac{1}{r} \cdot (\vec{p} \cdot \vec{r}) - \vec{r} \cdot d\vec{p} = \frac{1}{r} \cdot (\vec{p} \cdot \vec{r}) - \vec{r} \cdot d\vec{p} = \frac{1}{r} \cdot (\vec{p} \cdot \vec{r}) - \vec{r} \cdot d\vec{p} = \frac{1}{r} \cdot (\vec{p} \cdot \vec{r}) - \vec{r} \cdot d\vec{p} = \frac{1}{r} \cdot (\vec{p} \cdot \vec{r}) - \vec{r} \cdot d\vec{p} = \frac{1}{r} \cdot (\vec{p} \cdot \vec{r}) - \vec{r} \cdot d\vec{p} = \frac{1}{r} \cdot (\vec{p} \cdot \vec{r}) - \vec{r} \cdot d\vec{p} = \frac{1}{r} \cdot (\vec{p} \cdot \vec{r}) - \vec{r} \cdot d\vec{p} = \frac{1}{r} \cdot (\vec{p} \cdot \vec{r}) - \vec{r} \cdot d\vec{p} = \frac{1}{r} \cdot (\vec{p} \cdot \vec{r}) - \vec{r} \cdot d\vec{p} = \frac{1}{r} \cdot (\vec{p} \cdot \vec{r}) - \vec{r} \cdot d\vec{p} = \frac{1}{r} \cdot (\vec{p} \cdot \vec{r}) - \vec{r} \cdot d\vec{p} = \frac{1}{r} \cdot (\vec{p} \cdot \vec{r}) - \vec{r} \cdot d\vec{p} = \frac{1}{r} \cdot (\vec{p} \cdot \vec{r}) - \vec{r} \cdot d\vec{p} = \frac{1}{r} \cdot (\vec{p} \cdot \vec{r}) - \vec{r} \cdot d\vec{p} = \frac{1}{r} \cdot (\vec{p} \cdot \vec{r}) - \vec{r} \cdot d\vec{p} = \frac{1}{r} \cdot (\vec{p} \cdot \vec{r}) - \vec{r} \cdot d\vec{p} = \frac{1}{r} \cdot (\vec{p} \cdot \vec{r}) - \vec{r} \cdot d\vec{p} = \frac{1}{r} \cdot (\vec{p} \cdot \vec{r}) - \vec{r} \cdot d\vec{p} = \frac{1}{r} \cdot (\vec{p} \cdot \vec{r}) - \vec{r} \cdot d\vec{p} = \frac{1}{r} \cdot (\vec{p} \cdot \vec{r}) - \vec{r} \cdot d\vec{p} = \frac{1}{r} \cdot (\vec{p}$$

$$P_{x} = p_{0} tan / cos + p_{0} cos + p_$$

$$U(r) = \frac{1}{2md} \frac{d}{dr}$$

$$r = \left(\frac{2md}{r^2 + r^2}\right)^{\frac{1}{2}}$$

$$dW^2 = \left(\frac{2md}{r^2 + r^2}\right)^{\frac{1}{2}} \left[\frac{dr^2}{dr^2} + dr^2\right]$$

Px

EXO 2m - 0x = + Po 2m olw= = 2ma P2-P3)2 [dxp2+dp2] 1+cot2 = 81'42 coth?