Para este esquema, por las suposicionas que honos ansiderado,  $x^2y^2=d^2d=cte$ .

Almora la distancia entre nove (con posición  $\vec{N}=|x,y\rangle$ ) y luna  $(\vec{L}=|x_1,y_1\rangle)$ , semilial to  $\vec{r}_1=\vec{L}-\vec{N}:=|\vec{r}_1|=|\vec{L}-\vec{N}|=|x_1\rangle-|x_2\rangle=|x_1-x_2\rangle$ C 7 1 (x, z) Jut (XL, J1)

$$\frac{1}{|x|} \frac{(x_1, y_1)}{|x_2|} \frac{Ahmra |n|}{|x_1|} \frac{Ahmra |n|}{|x_2|} \frac{Ahmra |n|}{|x_1|} \frac{Ahmra |n|}{|x_2|} \frac{Ahmra |n|}{$$

TOP EXITY = I · N : , r\_= / r2(t) + d2+2r/t) dles(\$ - Wt).

Para 9; = 0: To = 2m 02r2 = 1 (mr2 p2) = Po

Aborn 
$$SU=U_g+U_g$$
, estas time la forma de  $U_g=-\frac{Gmm_I}{r_g}$  is  $SU=-\frac{Gm}{r}+\frac{m_L}{r_L}$ 

$$=) H=\frac{P_v^2}{m}+\frac{P_v^2}{nr_c}-\frac{P_v^2}{2m}-\frac{P_v^2}{2m}-\frac{Qm}{2mr_d}-\frac{m_L}{r_L}$$

=) 
$$\mathcal{H} = \frac{P_r^2}{m} + \frac{P_r^2}{nr^2} - \frac{P_r^2}{2m} - \frac{P_r^2}{2mr^2} - \frac{P_r^2}{2mr^2} - \frac{P_r^2}{r} + \frac{M_L}{r_L}$$

$$\mathcal{H} = \frac{P_r^2}{2m} + \frac{P_r^2}{2mr^2} - G_{1m} \left( \frac{M_L}{r} + \frac{M_L}{r_L} \right)$$

$$\frac{\partial \mathcal{H}}{\partial R} = \frac{2R}{2m} + \mathcal{U} = \frac{Pr}{m} = \hat{r}$$

$$\hat{P}_r = -\frac{\partial \mathcal{H}}{\partial r} = -\frac{2R^2}{2mr^3} + \frac{-G_m M_L}{r^2} + \frac{G_m M_L}{-2r_L^3} \cdot (\chi_{r-2} d l_{11} | b_{11} d l_{12} d l_{12} d l_{13} d l_{14} d$$

=>6
$$\hat{r}=\frac{P_r}{m}$$
  $\rightarrow$   $\hat{r}=\frac{md\hat{P_r}}{m}$ , por  $\hat{r}=\frac{r}{d}$   $\rightarrow$   $\hat{r}=\frac{\dot{r}}{d}$   $\Rightarrow$   $\hat{r}=\frac{i}{m}$   $\Rightarrow$   $\hat{r}=\frac{i}{m}$   $\Rightarrow$   $\hat{r}=\frac{i}{m}$ 

$$\hat{Q} \hat{\phi} = \frac{P_0}{mr^2} - 7 \hat{\phi} = \frac{md^2 \hat{P}_0}{mr^2}, \text{ por } \hat{p} = \frac{r}{d}, \text{ si plevamos al cuadrado} : \hat{F} = \frac{r^2}{J^2} - 7 \hat{\phi} = \frac{\hat{P}_0}{\hat{F}^2}. \frac{\hat{P}_0}{\hat{F}^2}$$

$$\hat{\beta} \hat{p}_{r} = \frac{P_{0}^{2}}{\ln r^{3}} - Gm \left( \frac{M_{T}}{r^{2}} + \frac{M_{L}}{r_{0}^{3}} \left[ r - d \log \left( d - W t \right) \right) \right) = \frac{m^{2} \hat{P}_{0}^{2} \int_{0}^{t} dt}{\ln J^{3} \hat{r}^{3}} - Gm \left( \frac{M_{T}}{\hat{r}^{2} J^{2}} + \frac{M_{L}}{\hat{r}^{2}} \int_{0}^{t} dt - d \log \left( d - W t \right) \right)$$

$$\hat{\sigma} \hat{p}_{r} = \frac{m d \tilde{P}_{0}^{2}}{\tilde{r}^{3}} - \frac{Gm M_{T}}{J^{2}} \left( \frac{1}{\tilde{r}^{2}} + \frac{M_{L}}{M_{T}} \cdot \frac{1}{\tilde{r}^{3}} \left( \tilde{r} - \log \left( d - W t \right) \right) \right)$$

$$\sqrt{1^{2} J^{2} - 2r d \left( \log \left( d - W t \right) \right)}$$

~13=dN~+1-2~ (0s/4-wt)