

Ruch ciato M:

$$Mg-N = MZ / Z+N=L$$

$$\Rightarrow \hat{z} = -\hat{n}$$

Ruch a ato m:

$$-N = m\ddot{\gamma} - m\gamma \dot{\varphi}^2$$

$$\Rightarrow -N = m\dot{\alpha} - m \times \frac{L^2}{m^2 \alpha^4}$$

$$=) Mg = -M\dot{r} - m\dot{r} + \frac{L^2}{mr^3}$$

$$(M+m) \ddot{r} - \frac{L^2}{mr^3} + \Pi g = 0$$

$$\dot{\alpha} - \frac{L^2}{(\Pi + m) m \alpha^3} + \frac{\Pi}{\Pi + m} g = 0$$

$$= \frac{L^2}{(\pi + m) m r_0^3} \left(\Lambda - \frac{3h}{r_0} \right) + \frac{\pi}{\pi + m} = 0$$

$$h + \frac{3L^2}{(n+m)mr_0^4}h + (state) = 0$$

not name mejedmondre oscylatora hernomènego.

$$= \omega^2 = \frac{3L^2}{(1+m)mr_0^4}$$