

$$b) \hat{r}) F_{ri} = \frac{m\sqrt{2}}{2} (\gamma - \rho_0 \omega^2)$$

$$\hat{\theta}) N = \frac{m\sqrt{2}}{2} (\gamma + \rho_0 \omega^2)$$

Para que no deslice:  $|F_{ri}| \leq \mu N$

$$\frac{m\sqrt{2}}{2} |\gamma - \rho_0 \omega^2| \leq \mu \frac{m\sqrt{2}}{2} (\gamma + \rho_0 \omega^2)$$

Para buscar el  $\omega^2$  mximo  $\omega^2 > \frac{\gamma}{\rho_0}$

$$\Rightarrow \rho_0 \omega^2 - \gamma \leq \mu (\gamma + \rho_0 \omega^2)$$

$$\rho_0 \omega^2 (1 - \mu) \leq \gamma (1 + \mu)$$

$$\Rightarrow \omega^2 \leq \frac{\gamma}{\rho_0} \frac{1 + \mu}{1 - \mu}$$