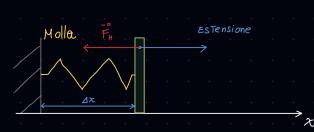
Forze elastiche



$$= \nabla \cdot \vec{F} = m\vec{a} = \nabla \cdot \vec{F}_{H} = m\vec{a} - \nabla \cdot \nabla x = m\vec{a} - \nabla \cdot m\vec{a} = \frac{\partial x^{2}}{\partial t} = \vec{x}$$

$$= \nabla \cdot \nabla x = m\vec{x} - \nabla \cdot m\vec{x} + \kappa x = 0 \qquad \text{Eq. differentiale eome il pendolo}$$

$$= \nabla \cdot \vec{x} + \frac{\kappa}{m} \times = 0 - \nabla \cdot \vec{x} + \omega^{2} \times = 0$$

$$-P \quad \chi(t) = A \cos(wt + \varphi)$$

Eq Trajettoria Molla

Siccome
$$\chi(t+T) = A\cos(\omega t + \varphi + 2\pi) - o A\cos(\omega t + \omega T + \varphi) = A\cos(\omega t + \varphi + 2\pi)$$

$$-0 \quad WT = 2\pi = 0 \quad W = \frac{2\pi}{T}$$

$$-0 \quad \mathcal{W} = \sqrt{\frac{\kappa}{m}} = \frac{2\pi}{T} = 0 \quad T = 2\pi \sqrt{\frac{m}{\kappa}}$$

periodo Molla