

$$\vec{F} = m \vec{a}$$

↑  
"inertia"

↳  $m_I \rightarrow$  massa inerziale

$m_G \rightarrow$  massa gravitazionale

$$P = \cancel{m_I} g = \gamma \frac{m_{IT} \cancel{m_I}}{r_T^2} \Rightarrow \boxed{g = \gamma \frac{m_{IT}}{r_T^2}} \quad \underline{\underline{OK}}$$

$$m_G = C m_I$$

$$P = \gamma \frac{m_{IT} m_I}{r_T^2} = \gamma \frac{\frac{m_{GT}}{C} \frac{m_G}{C}}{r_T^2} = \frac{\gamma}{C^2} \frac{m_{GT} m_G}{r_T^2} =$$

$$= \gamma^* \frac{m_{GT} m_G}{r_T^2} \Rightarrow \boxed{\vec{F}_G = -\gamma^* \frac{m_G m'_G}{r^2} \vec{u}_r}$$

$$P = \gamma^* \frac{m_{GT} m_G}{r_T^2} = m_I g \Rightarrow \boxed{g = \gamma^* \frac{m_{GT} m_G}{r_T^2 m_I}} =$$

$$= \frac{\gamma}{\cancel{C^2}} \frac{\cancel{C} m_{IT}}{r_T^2} \cancel{C} = \gamma \frac{m_{IT}}{r_T^2}$$

↙  $g' \frac{m_G}{m_I}$



$$C = \frac{m_G}{m_I} = 1$$

$$\Rightarrow \boxed{\gamma^* = \gamma} \quad \boxed{m_G = m_I}$$

$$T = 2\pi \sqrt{\frac{e}{g}} = 2\pi \sqrt{\frac{e}{g'} \frac{m_I}{m_G}}$$

$$\boxed{\frac{m_G}{m_I} = \text{cost}}$$

Principio di equivalenza