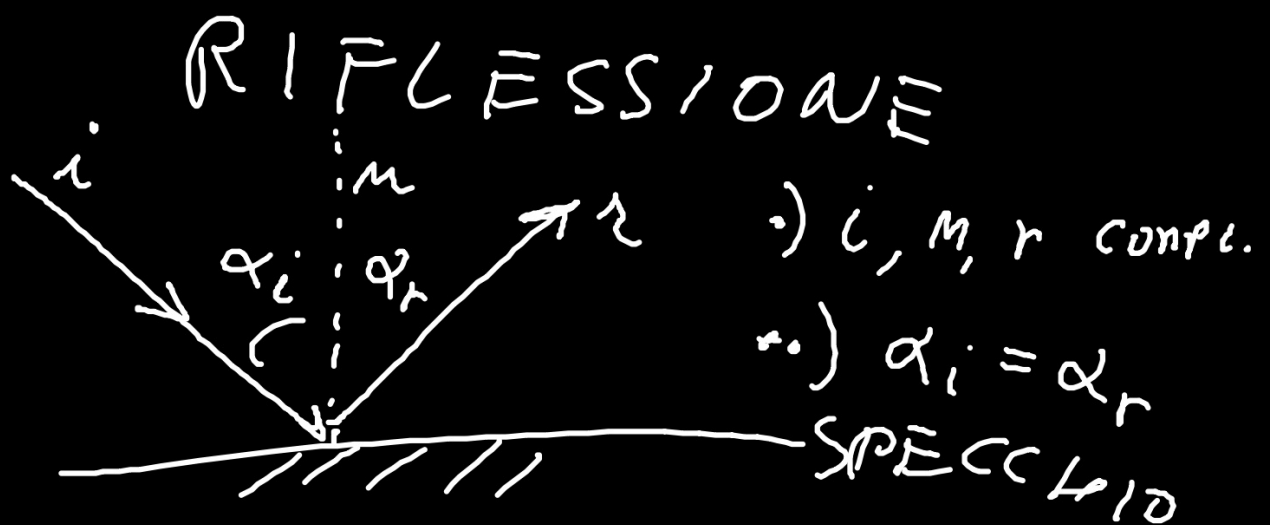
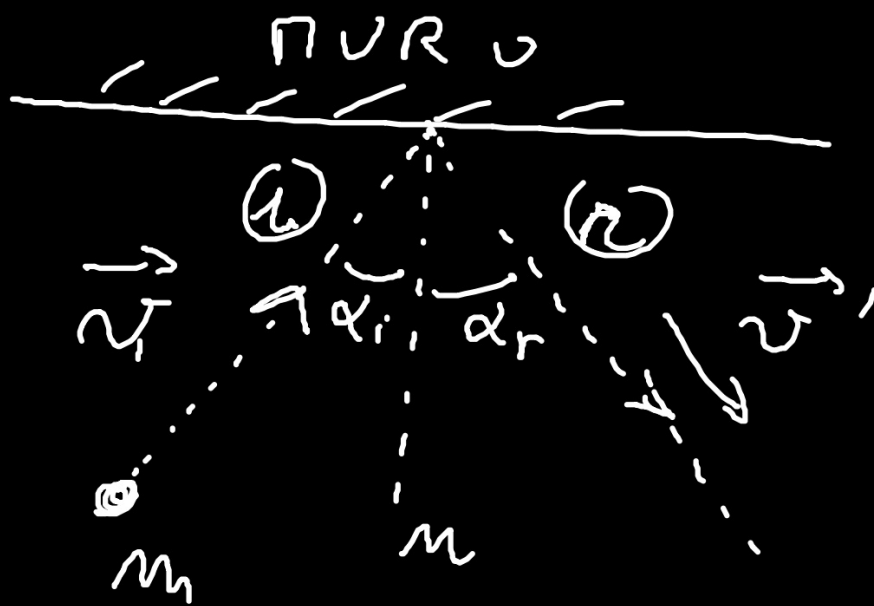


LA LEGGE DELLA



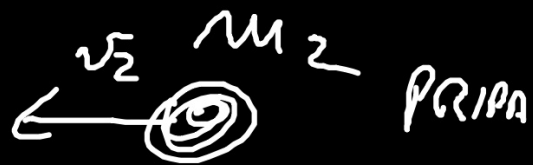
MODELLO/INTERPRETAZ.

MECCANICA



NODELLO MECCANICO

URTO



$$\begin{cases} \text{CONS. } \vec{P} \\ \text{CONS. } \vec{E}_C \end{cases} \rightarrow \begin{matrix} v_1' \\ v_2' \end{matrix}$$

$$v_1' = \frac{m_1 - m_2}{m_1 + m_2} v_1 + \frac{2m_2}{m_1 + m_2} v_2$$

$$v_2' = \frac{m_2 - m_1}{m_1 + m_2} v_2 + \frac{2m_1}{m_1 + m_2} v_1$$

$$v_2 = 0 \quad m_2 \rightarrow \infty$$

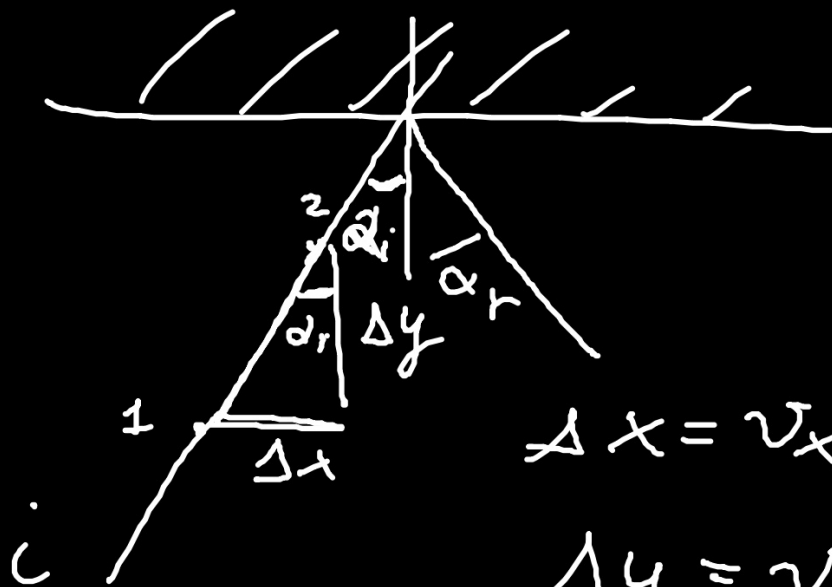
$$\downarrow$$
$$v_2' = 0$$

$$v_1' = \lim_{m_2 \rightarrow \infty} \frac{m_1 - m_2}{m_1 + m_2} v_1$$

-1

$$= -v_1$$

$$|v_1'| = |v_1|$$



$$\Delta x = v_x \cdot \Delta t$$

$$\Delta y = v_y \Delta t$$

$$\varphi_i : \operatorname{tg} \varphi_i = \frac{\Delta x}{\Delta y} = \frac{v_x \cancel{\Delta t}}{v_y \Delta t}$$

$$\alpha_r : \quad \begin{aligned} \tan \alpha_r &= \frac{v_x' \cancel{\Delta t}}{v_y' \cancel{\Delta t}} \\ &= \frac{v_x'}{v_y'} \\ &= \frac{v_x}{v_y} \end{aligned}$$

$$\tan \alpha_i = \tan \alpha_r$$

$$0 < \alpha_i, \alpha_r < 90$$

$$\alpha_i = \alpha_r$$