

$$L = F_{\parallel} \cdot s$$
$$\vec{F} = m \cdot \vec{a} \longrightarrow \vec{F} = m \cdot \frac{\Delta \vec{v}}{\Delta t}$$

$$L = m \cdot \frac{\Delta v}{\Delta t} \cdot s \longrightarrow L = m \cdot \frac{\Delta v}{\Delta t} \cdot \Delta x$$

$$\frac{\Delta x}{\Delta t} = v \quad \text{sol in M. V. a.}$$

$$v = \frac{(v_i + v_f)}{2}$$

$$L = m \cdot \Delta v \cdot \frac{(v_i + v_f)}{2} \longrightarrow L = m \cdot (v_f - v_i) \cdot v$$

$$L = \frac{1}{2} m (v_i^2 - v_f^2)$$

$$L_{\text{tot}} = \Delta T \quad L_{\text{tot}} = L_{\text{NC}} + L_c$$

$$\Delta U = -L_c \implies \underline{\Delta U = -\Delta T}$$

$$\Delta Q = 0 \quad \text{se } Q \text{ è conservata}$$

$$\Delta U + \Delta T = 0 \implies \Delta(U+T) = 0$$

CON FORSE non conservativa \bar{E}_H

$$\Delta \bar{E}_H \neq 0$$

$$\Delta E_H = ?$$

$$\Delta U + \Delta T = -L_c + L_{\text{tot}} = L_{\text{NC}}$$

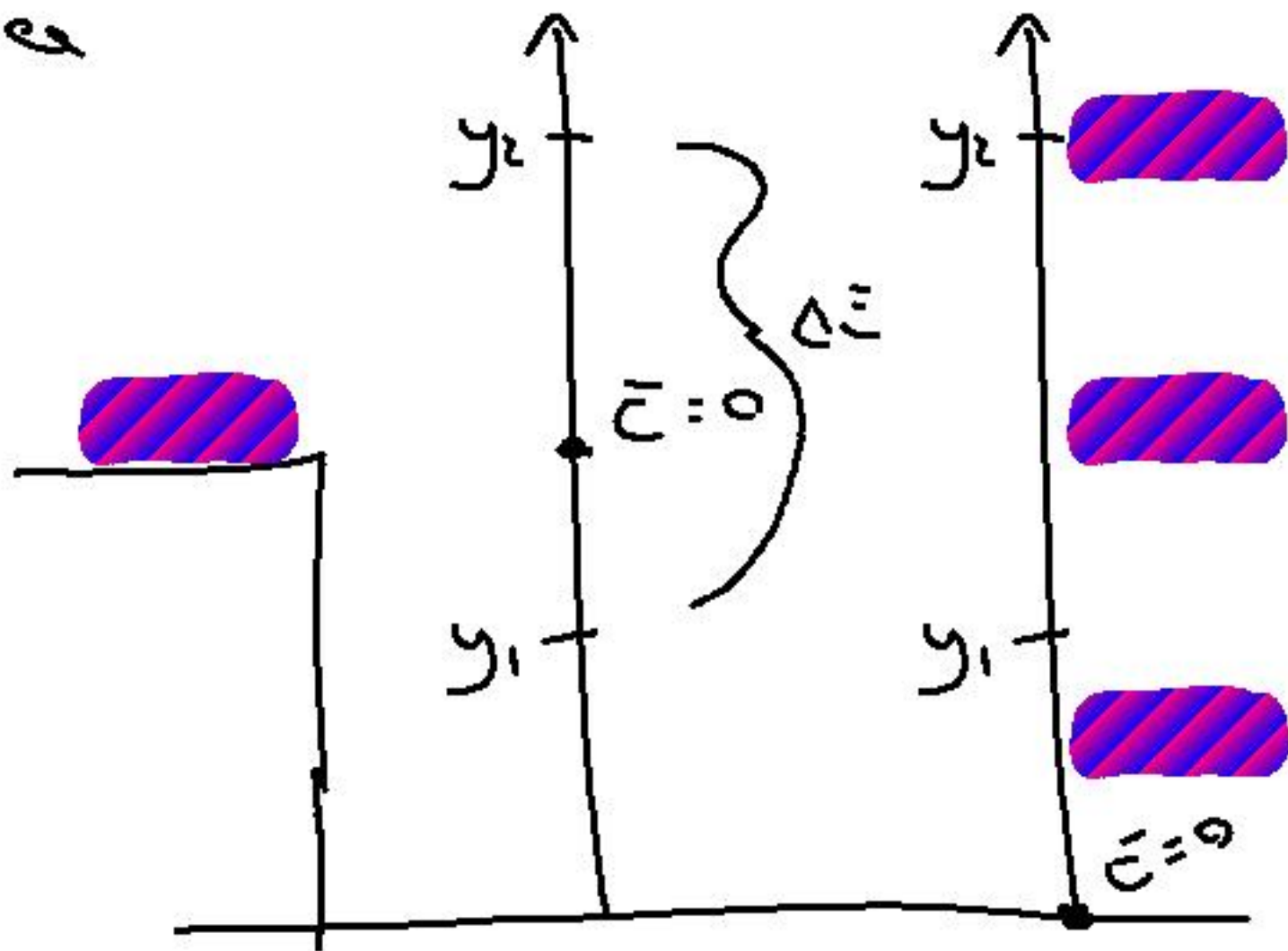
NON
CONSERVATIVO

\bar{E} Energia meccanica

$$\bar{E}_M = \bar{T} + U$$

In sistema
conservativo

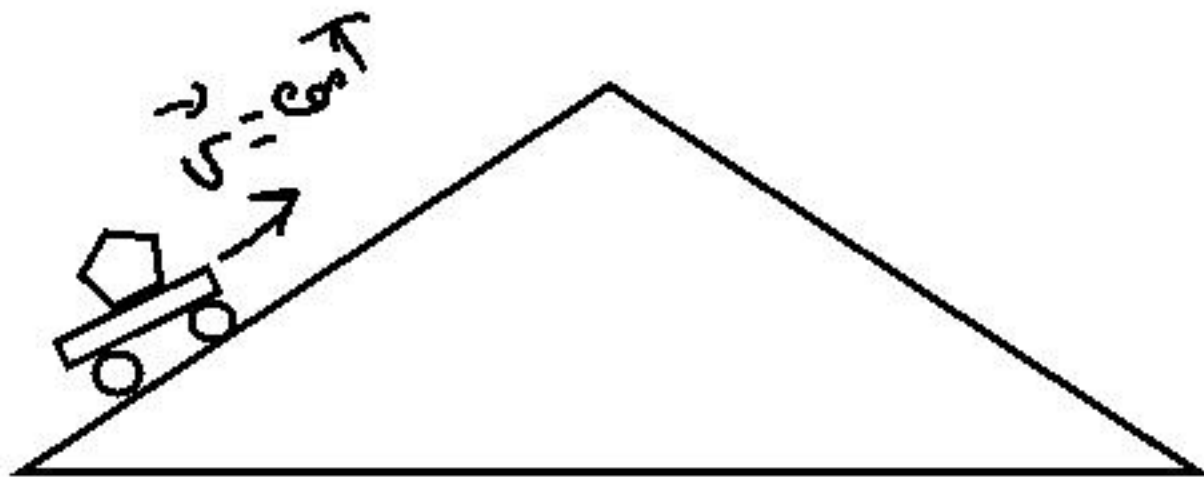
$$\Delta \bar{E}_M = 0$$



~~In sistema
conservativo~~

$$\Delta \bar{E}_M \neq 0$$

$$\Delta \bar{E}_M = L_{NC}$$



$$\Delta \bar{U}_A > 0$$

