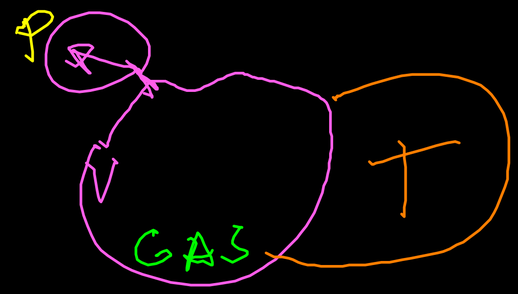
MISURA DELLA TEMPERATURA

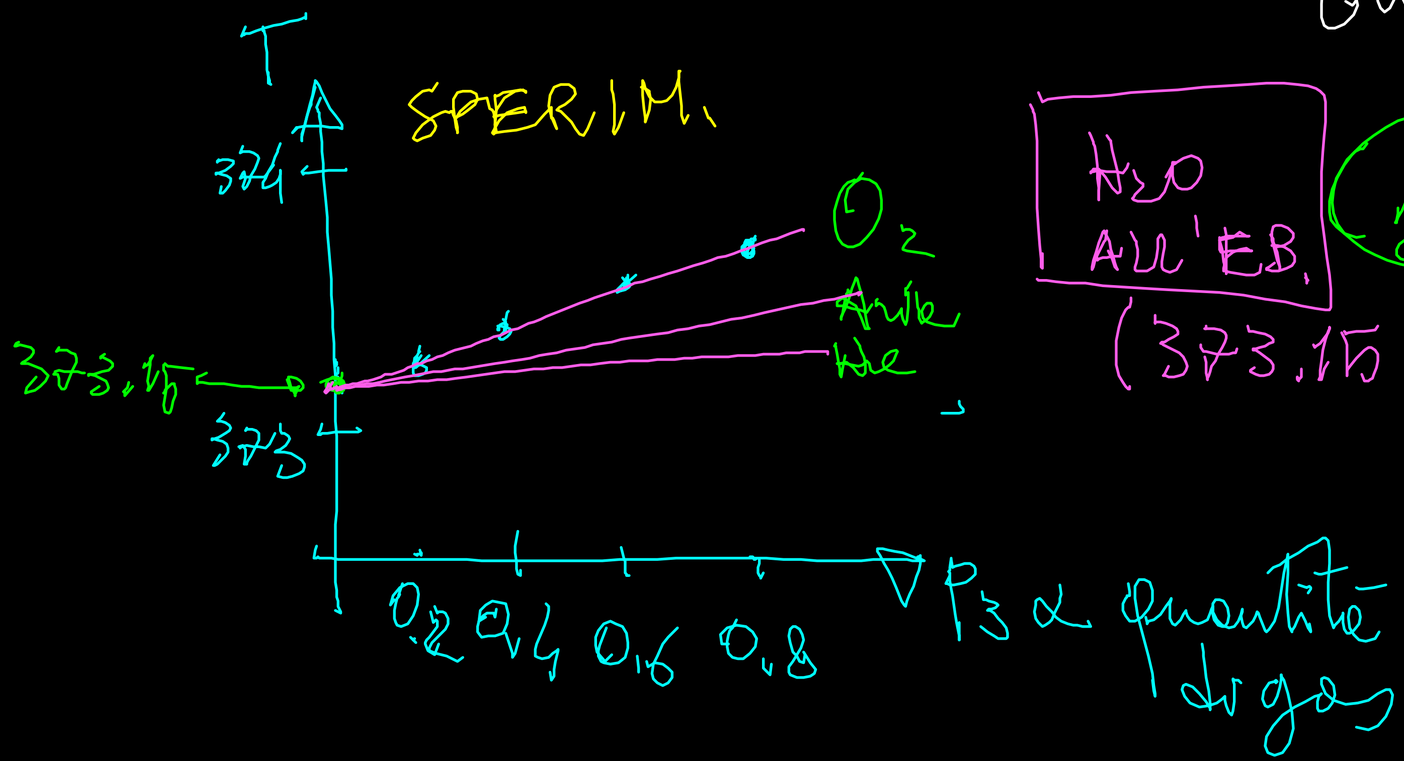
SCALA KELVIN → $T = \lim_{p_3 \to 0} (273.16\ K) \frac{p}{p_{3R}}$

p ← pres. misu

p_{3R} ← Pres. trip. del punto triplo dell'H_2O (REALE)

↑ Temp. misurata





H_2O ALL'EB. (373.15 K)

GAS

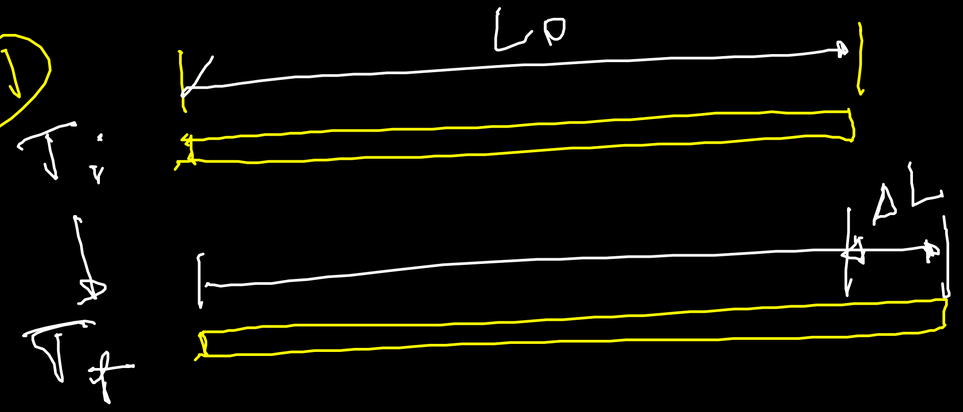
GAS RAREFATTO ($p \to 0$)

⇓

GAS IDEALE O PERFETTO

DILATAZIONE TERMICA

1D

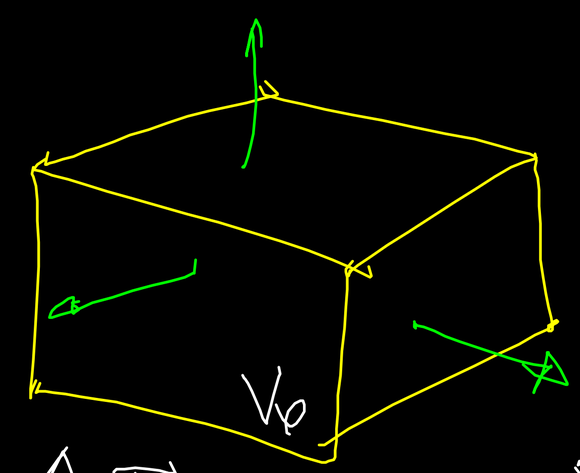


$$\Delta T = T_f - T_i$$

$$\Delta L = \alpha L_0 \Delta T$$

α [K]$^{-1}$ — Coeff. di dilat. termica lineare

3D



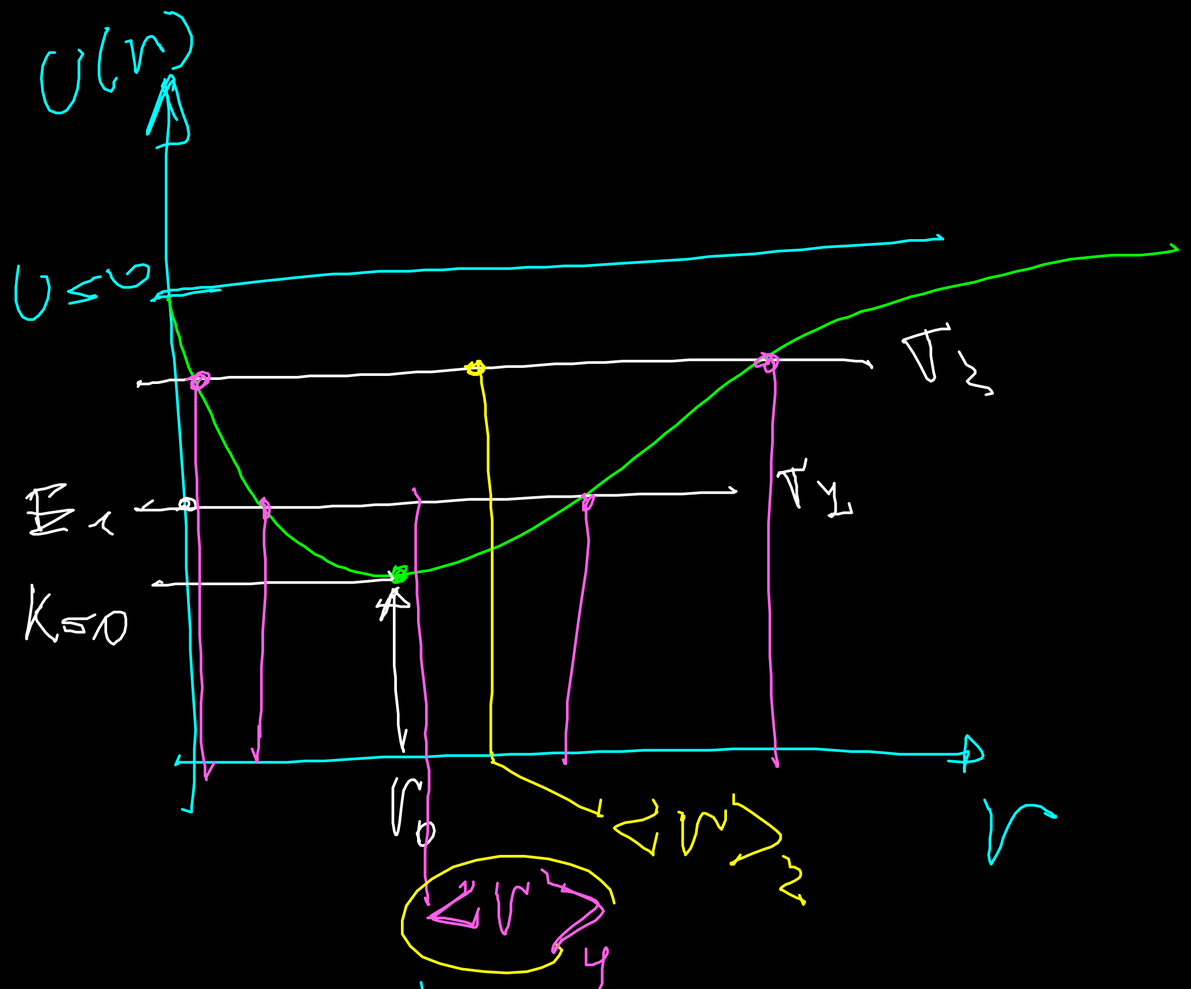
Dilatazione termica di volume

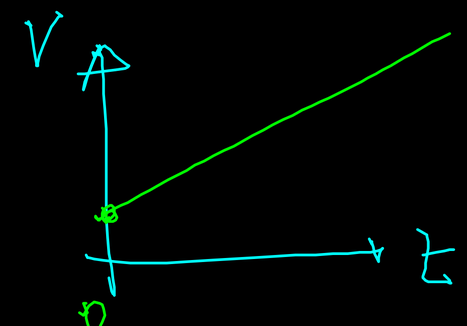
$$\Delta V = \beta V_0 \Delta T$$

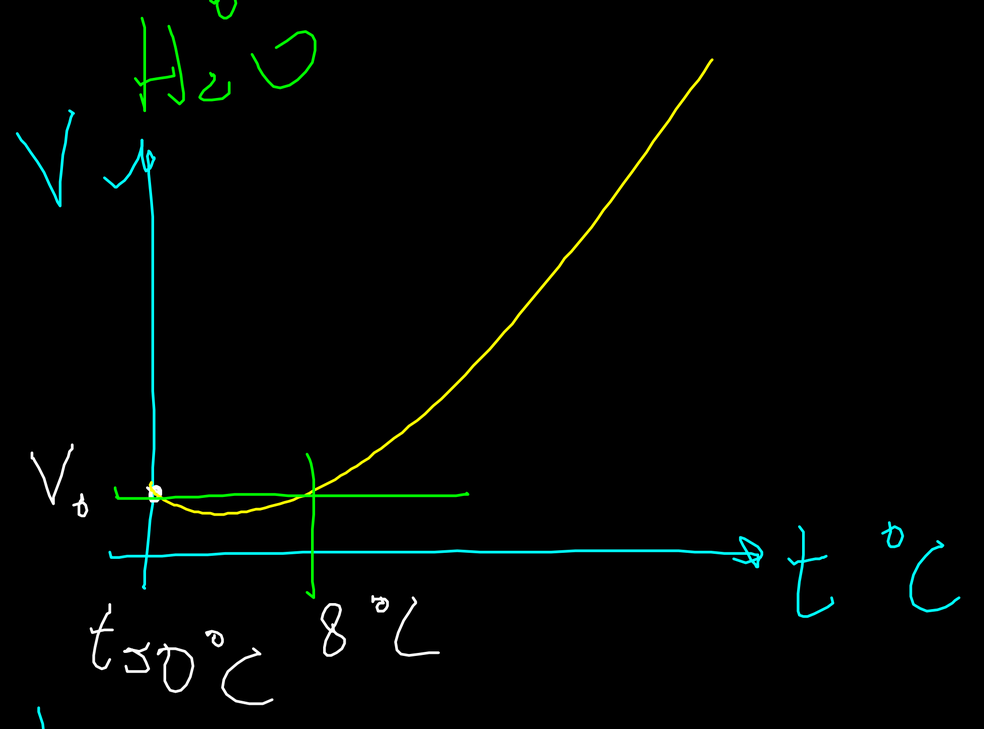
β — coeff di dil. termica cubica

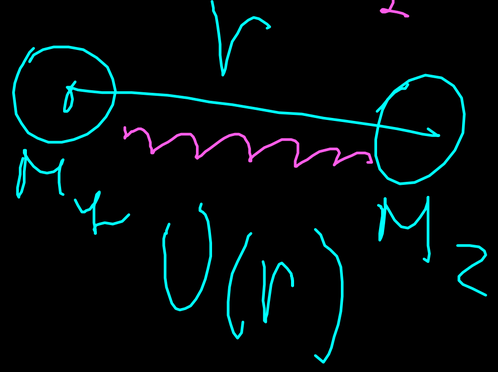
SOST. ISOTROPE

$$\beta = 3\alpha$$









$$E = K + U(r)$$