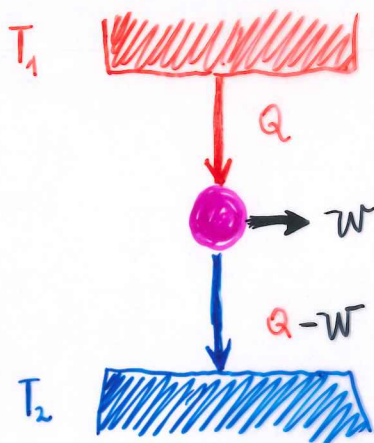


- LAN MAXIMOA :

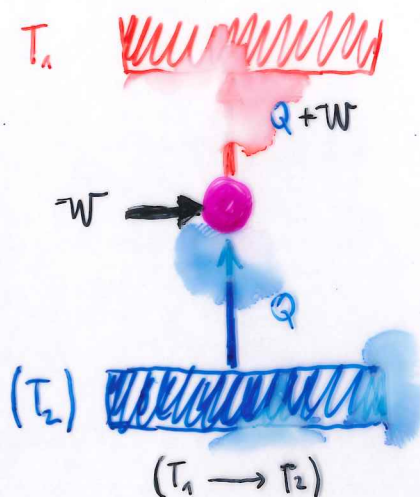


UNIBERTSOARI DABOKION ENTROPIA-ALDAKUNTZA :

$$\begin{aligned}\Delta S_u &= \Delta S_u + \Delta S_{ing} \geq 0 \\ &= 0 + (\Delta S_{T_1} + \Delta S_{T_2}) \geq 0 \quad \left(\Delta S = \frac{Q}{T}\right) \\ &= \left(-\frac{Q}{T_1} + \frac{Q-W}{T_2}\right) \geq 0\end{aligned}$$

$$W_{\max} = Q \left(1 - \frac{T_2}{T_1}\right)$$

- LAN MINIMOA : GORPUZ FINITOA T_1 -ENIK T_2 -RA HOZTEKO (?)



UNIBERTSOARI DABOKION ENTROPIA-ALDAKUNTZA :

$$\begin{aligned}\Delta S_u &= \Delta S_s + \Delta S_{ing} \geq 0 \\ &= 0 + (\Delta S_{T_1} + (S_2 - S_1)) \geq 0 \\ &= + \left(\frac{Q+W}{T_1} + (S_2 - S_1)\right) \geq 0 \\ W &\geq T_1(S_2 - S_1) - Q\end{aligned}$$

$$W_{\min} = T_1(S_2 - S_1) - Q$$