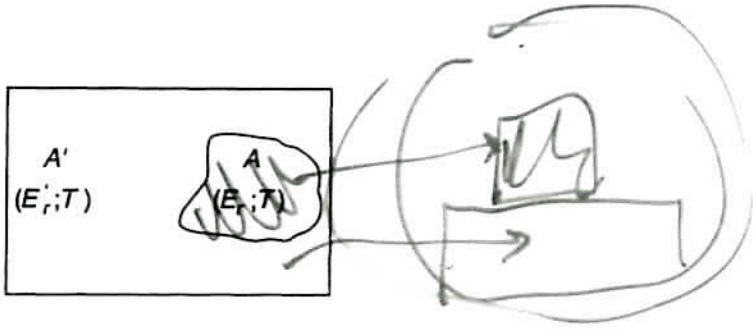
1 ebatze-modoa
Sistema baten eta bero-iturri baten arteko oreka



ITXITURA-BALDINTZA $$E_r + E_{r'} = E^{(0)}$$

TAMAINA $$\frac{E_r}{E^{(0)}} = \left(1 - \frac{E_{r'}}{E^{(0)}}\right) \ll 1$$

egindako galdaren ebaluazioa $$P_r \propto \Omega'(E_{r'}) \equiv \Omega'(E^{(0)} - E_r)$$

$$\ln \Omega'(E'_r) = \ln \Omega'(E^{(0)}) + \left(\frac{\partial \ln \Omega'}{\partial E'}\right)_{E'=E^{(0)}} \underbrace{\left(E'_r - E^{(0)}\right)}_{-E_r} + \cdots \simeq \text{konst} - \beta' E_r$$

$$\left(\frac{\partial \ln \Omega}{\partial E}\right)_{N,V} \equiv \beta$$ 1. GAIAREN ondorioetatik

$$\boxed{P_r \propto \exp\left(-\beta E_r\right)}$$

$$\boxed{P_r = \frac{\exp\left(-\beta E_r\right)}{\sum_r \exp\left(-\beta E_r\right)}}$$

BERO-ITURRIA : EZAGUTU!