- $$S(N, V, E) = k \ln \Omega(N, V, E)$$

- $$\left(\frac{\partial S}{\partial E}\right)_{N,V} = \frac{1}{T}; \qquad \left(\frac{\partial S}{\partial V}\right)_{N,E} = \frac{P}{T}; \qquad \left(\frac{\partial S}{\partial N}\right)_{V,E} = -\frac{\mu}{T}$$

- $$P = \frac{\left(\frac{\partial S}{\partial V}\right)_{N,E}}{\left(\frac{\partial S}{\partial E}\right)_{N,V}} = -\left(\frac{\partial E}{\partial V}\right)_{N,S}$$

- $$\mu = -\frac{\left(\frac{\partial S}{\partial N}\right)_{V,E}}{\left(\frac{\partial S}{\partial E}\right)_{N,V}} = \left(\frac{\partial E}{\partial N}\right)_{V,S}$$

- $$T = \left(\frac{\partial E}{\partial S}\right)_{N,V}$$

_____ IRUZKIN OROKORRA

$$S(N, V, E) = k_B \, L_m \boxed{\Omega(N, V, E)}$$

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