

Proof: Assuming the entropy  $S$  and the number of microstates  $\Omega$  of a physical system are related through an arbitrary functional form  $S = f(\Omega)$ , show that the additive character of  $S$  (extensive parameter) and the multiplicative parameter  $\Omega$  (meaning  $\Omega = \Omega_1 \cdot \Omega_2 \cdot \Omega_3 \dots$ ) is the number of microstates for a system necessarily require that the function  $f(\Omega)$  is of the form

$$S = f(\Omega) = K_0 \ln(\Omega), \text{ where } K_0 \text{ is a constant.}$$

Soln: We have

$$S(\Omega) = S(\Omega_1) + S(\Omega_2) + \dots = \sum_i S(\Omega_i)$$

Differentiating both sides w.r.t.  $\Omega_j$

$$\frac{d}{d\Omega_j} S(\Omega) = \frac{d}{d\Omega_j} \sum_i S(\Omega_i)$$

$$\Rightarrow \frac{dS(\Omega)}{d\Omega} \cdot \frac{d\Omega}{d\Omega_j} = \sum_i \frac{dS}{d\Omega_j} \delta_{ij} \quad \text{--- (1)}$$

Since  $\Omega = \Omega_1 \cdot \Omega_2 \cdot \Omega_3 \dots = \prod_i \Omega_i$

$$\frac{d\Omega}{d\Omega_j} = \prod_{i \neq j} \Omega_i \quad \left[ \text{Product without } \Omega_j \right]$$

Now, multiply both sides of (1) by  $\Omega_j$

$$\Omega_j \prod_{i \neq j} \Omega_i \cdot \frac{dS}{d\Omega} = \Omega_i \frac{dS}{d\Omega_i} \Rightarrow \Omega \frac{dS}{d\Omega} = \Omega_i \frac{dS_i}{d\Omega_i}$$

$$\Rightarrow \frac{dS}{d(\ln \Omega)} = \frac{dS_i}{d(\ln \Omega_i)} = \text{const.} = K_0$$

$$\Rightarrow dS = K_0 d(\ln \Omega)$$

Integrating

$$\boxed{S = K_0 \ln \Omega}$$

# Fundamental Problems In Statistical Mech

**Hongru Du**



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