

Proof: Assuming the entropy S and the number of microstates Ω 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 Ω (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 $S = f(\Omega) = k_B \ln(\Omega)$, where k_B 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. Ω_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 Ω_j

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

$$\Rightarrow \frac{dS}{d(\ln \Omega)} = \frac{dS_j}{d(\ln \Omega_j)} = \text{const.} = k_B$$

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

Integrating

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

Fundamental Problems In Statistical Mech

Annelies Wilder-Smith



Fundamental Problems In Statistical Mech:

Unveiling the Magic of Words: A Report on "**Fundamental Problems In Statistical Mech**"

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