

ERA JARRAITUAN AZERTUKO DUGU
MULTIZOMIDEEN BANAKETA

MULTZO KANONIKOAN!

$$P(E) dE \propto g(E) e^{-\frac{E}{k_B T}} dE$$

$$g(E) e^{-\beta E} dE$$

$$P(E) = \times \begin{array}{|l|l|} \hline g(E) & E \uparrow \Rightarrow g(E) \uparrow \uparrow \uparrow \\ \hline e^{-\beta E} & E \uparrow \Rightarrow e^{-\beta E} \downarrow \downarrow \downarrow \\ \hline \end{array}$$



$$\frac{\partial}{\partial E} [g(E) \cdot e^{-\beta E}]_{E=E^*} = 0 \quad \text{EXTREMOA}$$

maximua

$$\left. \frac{\partial}{\partial E} (\ln g(E)) \right|_{E=E^*} = \beta$$

Mikro

$$\left. \begin{array}{l} S = k_B \ln \Omega \\ E \rightarrow \Omega = g \end{array} \right| S = k_B \ln g(E)$$

+ FISIKA

$$\frac{1}{T} \equiv \left(\frac{\partial S}{\partial E} \right)_{\square} \leftarrow E = U$$

KANONIKOA!

PROBABILENA

$$E^* = U$$

BATEZBESTEKOA

zer forma daukan ostetu