$$Q_1(T) = \frac{KBT}{tw}$$

$$Q_{1}(T) = \frac{1}{2 \sinh \left(\frac{1}{2} \frac{\hbar \omega}{k \omega T}\right)}$$

= - (Kgr) Lm QN(T)

$$M = k_0 T lm \left(\frac{t r u}{k_0 T}\right)$$

P - 0

Ó

NKs
$$\left(\frac{\hbar\omega}{\kappa_{AT}}\right)^2 = \frac{\hbar\omega}{\left(e^{\frac{\hbar\omega}{\kappa_{BT}}} - 1\right)^2}$$

$$g(E) = \frac{1}{(\hbar \omega)^{N}} \cdot \frac{E^{N-1}}{(N-1)!}$$

$$\stackrel{\circ}{\underset{R=0}{\leq}} \binom{N+R-1}{R} \delta \left(E - \{R + \frac{1}{2}N\} \hbar \omega \right)$$

Mikokawnifiz