

DIRECT FORMULA FOR \bar{E} in H.O

$\bar{E} = \frac{1}{2} kT$ for each term (K & D P.E)

c.g. In 3-D, 3 K.E & 3 P.E terms

$\bar{E} = kT + kT + kT = 3kT$

$\bar{E} = 3kT$

but if particles are non interacting

$\Rightarrow \bar{E} = \frac{1}{2} kT + \frac{1}{2} kT + \frac{1}{2} kT$

$\Rightarrow \bar{E} = \frac{3}{2} kT$

For H.O.

$Z = \sum_{n=0}^{\infty} e^{-\beta (n + \frac{1}{2}) h\nu}$

$Z = e^{-h\nu\beta/2} + e^{-3h\nu\beta/2} + \dots$

GP series

$a = e^{-h\nu\beta/2} \quad r = e^{-\beta h\nu}$

$\therefore Z = \frac{e^{-\beta h\nu/2}}{1 - e^{-\beta h\nu}}$

For 3D HO, $Z_N = \left(\frac{1}{1 - e^{-\beta h\nu}}\right)^3 N$

Average value of $n = \frac{1}{2}$

Partition fn for particles in magnetic field

$Z = e^{-\beta E} = e^{-\beta(\vec{\mu} \cdot \vec{H})} = e^{-\beta(\vec{\mu} \cdot \vec{B})}$

up $\rightarrow \mu B$, down $\rightarrow -\mu B$

$Z = e^{-\mu\beta B} + e^{\mu\beta B}$

EX JUNE 2012

EXAMPLE \rightarrow If $F = NkT \ln\left(\frac{2\omega V}{N} (kT)^{5/2}\right)$

Find U.

Soln. As $F = -NkT \ln Z$

$\Rightarrow Z = \frac{2\omega V (kT)^{5/2}}{N}$

$U = -\frac{\partial}{\partial \beta} (\ln Z) = -\frac{\partial}{\partial \beta} \left(\ln\left(\frac{2\omega V}{N} (kT)^{5/2}\right) \right)$

$= \frac{5N}{2\beta} = \frac{5}{2} NkT$

$U = \frac{5}{2} NkT$

Ensemble \rightarrow system of collection of similar systems having some const parameters

Microcanonical

Walls are rigid impermeable well insulated

N, V, E

Microcanonical

Canonical

Walls are rigid conducting impenetrable

V, N, T

Canonical

Grand canonical

Walls are impenetrable rigid conducting

μ, V, T

Grand canonical

These quantities remain same in a particle ensemble i.e. in microcanonical, canonical & Grand canonical resp. $\frac{1}{kT} \leftarrow$ Energy fluctuation $\rightarrow \frac{1}{kT}$

Maxwell Boltzmann distⁿ law of velocities

No. of particles in velocity range v to $v+dv$ is

$n(v_x) dv_x = N \left(\frac{m}{2\pi kT}\right)^{1/2} e^{-\frac{mv_x^2}{2kT}} dv_x$

$P = \frac{n}{N} = \left(\frac{m}{2\pi kT}\right)^{1/2} e^{-\frac{mv_x^2}{2kT}}$

$P_{max} = \left(\frac{m}{2\pi kT}\right)^{1/2} \left(\frac{kT}{m}\right)^{1/2}$

$\bar{v}_x = \int_{-\infty}^{\infty} v_x P dv_x = 0$

$\bar{v}_x = \bar{v}_y = \bar{v}_z = 0$

$\langle v_x v_y \rangle = \langle v_y v_x \rangle = \langle v_z v_x \rangle = 0$

In 1-D $\langle v_x^2 \rangle = \langle v_y^2 \rangle = \langle v_z^2 \rangle = kT/m$

In 2-D $\langle v_x^2 \rangle = \langle v_y^2 \rangle = \langle v_z^2 \rangle = 2kT/m$

In 3-D $\langle v_x^2 \rangle = \langle v_y^2 \rangle = \langle v_z^2 \rangle = 3kT/m$

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RJ Shavelson



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