

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

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

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

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

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

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

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

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

Find U.

Soln. As  $F = -NkT \ln Z$   
 $\Rightarrow Z = \frac{2\alpha V (kT)^{5/2}}{N}$

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

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

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

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

$\mu, V, T$

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 dist<sup>n</sup> law of velocities

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

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

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

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

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

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

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

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

# Solution To Statistical Physics Berkeley

**Minjie Lin**



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