

CHAPTER 2

2.1) ENTROPY AND TEMPERATURE

- (a) $\sigma = \log g = \log C + (3N/2)\log U$.
 $(\partial\sigma/\partial U)_N = 1/\tau = (3N/2)(1/U)$, hence $U = 3N\tau/2$.
- (b) $(\partial^2\sigma/\partial U^2)_N = (3N/2)(-1/U^2) < 0$.

2.2) PARAMAGNETISM

States with spin excess $2s$ have the energy $U = -2smB$, hence $s = -U/2mB$. Insertion into (40) yields (41). From (41) obtain $(\partial\sigma/\partial U)_{N,B} = 1/\tau = -U/m^2B^2N$. Solve for U : $U = \langle U \rangle = -m^2B^2N/\tau = -MB$. Hence $M/Nm = mB/\tau$.

2.3) QUANTUM HARMONIC OSCILLATOR

- (a) From (1.55):

$$\begin{aligned}\sigma &= \log g = \log(N+n-1)! - \log n! - \log(N-1)! \\ &\approx \log(N+n)! - \log n! - \log N!\end{aligned}$$

Replacing $N-1$ by N is equivalent to neglecting a term $-\log[(N+n)/N]$, which for large N is small compared to the factorial terms. With the Stirling approximation:

$$\begin{aligned}\sigma &\approx (N+n) \log(N+n) - n \log n - N \log N \\ &= (N+n) \log[(N+n)/N] - n \log(n/N) \\ &= N[(1+n/N) \log(1+n/N) - (n/N) \log(n/N)].\end{aligned}$$

- (b) Set $n = U/\hbar\omega$ and $N\hbar\omega = U_0(N)$:

$$\sigma(U, N) = N[(1+U/U_0) \log(1+U/U_0) - (U/U_0) \log(U/U_0)].$$

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