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Solution 2. Paramagnetism. $U(s) = U_1(s_1) + U_2(s_2) = 2mB(s_1 + s_2) = 2mBs$ or $s = U/2mB$ i.e.

potential energy $U(s) = 2smB$. For $|j_s| \ll N$, then $g(N; s) \approx g(N; 0) \exp$

$2s^2 = N = g(N; 0) \exp 2U/2(mB)^2 N$

$\ln(N; U) = \ln g(N; U) = \ln g(N; 0) - U^2/2m^2B^2$

$\ln g(N; 0) = \ln g(N; U) + U^2/2m^2B^2$

$\ln g(N; U) = \ln g(N; 0) - U^2/2m^2B^2$

$\ln g(N; U) = \ln g(N; 0) - U^2/2m^2B^2$

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1 N where $\sigma = \ln g(N;0) / N$ = @
@U N = U m2B2 1 N What is the
thermal equilibrium value of this
N-spin system of fractional
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Part a Suppose $g(U) = CU^{3N-2}$, where C is a constant and N is the number of particles. Show that $U = \frac{3}{2} N \epsilon$. We use the definition of temperature as $\frac{1}{T} = \left(\frac{\partial \ln(g)}{\partial U} \right)_N = 1/\epsilon$

(1) So, let's calculate $\ln(g) =$

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$3N \ln(U) + \ln(C)$ (2) Therefore,
 $\frac{\partial \ln Z}{\partial U} = \frac{3N}{U} = \frac{1}{T}$ (3) So
nally, $U = \frac{3}{2} N T$ (4) Part b Show
that $\frac{\partial \ln Z}{\partial \beta} = -U$

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$$2m \psi \frac{1}{r^2} \frac{d}{dr} \left(r^2 \frac{d\psi}{dr} \right) + 4\pi r^2 \frac{d}{dr} \left(\frac{d\psi}{dr} \right) = - \frac{4\pi}{2m} \psi \frac{d}{dr} \left(r^2 \frac{d\psi}{dr} \right) = - e^2$$
$$2m \psi \left[0 - \frac{r}{a} \frac{d}{dr} \left(r^2 \frac{d}{dr} e^{-r/a} \right) \right] = 0$$

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$\frac{dr}{r} = 2e^{-r/a} = 2 \frac{2m a/4}{2a^{3/8}} = 2$
 $2ma^2, \epsilon = 2 \frac{2ma^2 - e^2}{4\pi\epsilon_0 a}, \square$
 $\epsilon \square a = 0 \square a = 4\pi\epsilon_0 \frac{2 e^2 m}{aB},$
 $\Delta r = r^2 = \square \frac{3}{2} aB, \Delta p^2_i = \frac{1}{3} p^2 =$
 $\frac{1}{3} \frac{2}{a^2}, \Delta x^2_i = \frac{1}{3} r^2 = \frac{3}{3} a^2$
 $= a^2, \Delta p^2_i \Delta x^2_i = \frac{1}{3} \frac{2}{a^2}, \text{ vs. } \Delta p^2_i$
 $\Delta x^2_i \square \frac{1}{2} \frac{4}{a^2}. \text{ Problem 2.6s Solving}$
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(Kittel Ch 2) that any periodic function can be written as Fourier series $f(r) = \sum_G f_G \exp(i G \cdot r)$

where the G 's are reciprocal lattice vectors $G(m_1, m_2, \dots) = m_1 b_1 + m_2 b_2 + m_3 b_3 \dots$

Check: A periodic function satisfies $f(r) = f(r + T)$ where T is

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