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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 $j \ll N$, then $g(N; s) \approx g(N; 0) \exp(2s^2/N) = g(N; 0) \exp(2U^2/(mB)^2 N)$ $\ln g(N; U) = \ln g(N; 0) + \frac{2U^2}{2m^2B^2 N}$ where $\ln g(N; 0) = \ln \frac{2^N}{N!} = N \ln 2 - \ln N!$ What is the thermal equilibrium value of this N-spin system of fractional magnetization?

NOTES AND SOLUTIONS TO THERMAL PHYSICS BY CHARLES KITTLE ...

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KALMAN KNIZHNIK - KITTEL AND KROEMER SOLUTIONS K&K 2.1 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 $\frac{1}{T} = \left(\frac{\partial \ln g}{\partial U}\right)_N$ So, let's calculate $\frac{1}{T} = \ln(g) = 3N \ln(U) + \ln(C)$ (2) Therefore, $\frac{1}{T} = \frac{3N}{2U} = \frac{1}{T}$ (3) So nally, $U = \frac{3}{2} N \epsilon$ (4) Part b Show that $\frac{1}{T} = \frac{3N}{2U}$

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