

Reading Assignment 09/29

(due: Monday, September 29, 9 am)

Read: §3.3

1.: What is the magnetization of the two-state paramagnet in terms of the number of up spins N_{\uparrow} and down spins N_{\downarrow} ? What is the energy?

2.: Given a paramagnet in a magnetic field B , at which temperatures (including $T = 0$ and $T = \infty$) is the magnetization zero? At which T is the heat capacity zero?

3. Comments: What of this reading did you find most difficult and what did you find most interesting? Any other comments?

Homework due Mo, Sept. 29: 3.10 & 3.14