

Due date: Thursday, Nov. 1

Deadline: Tuesday, Nov. 6

S means a problem in Schroeder's text. The number in parentheses is the number of points.

1. (10) S 6.5 3-state model and the role of zero-point energy.
2. (5) S 6.12 Estimate of temperature of interstellar clouds.
3. (15) S 6.22 b-e Paramagnet with n states. We did part a in class. Part f is a straightforward grind.
4. (10) S 6.41 2D Maxwell speed distribution. We did most of this in class. Just find the mean, the mode, and the rms speeds.
5. (10) S 6.42 Free energy of N SHO's. In part b, comment on the meaning of the two terms.