

# Physics 450: Problem Set #9

Department of Physics and Astronomy  
Sonoma State University

Due Wednesday November 10, 2010, 12 pm (in class)

- All problems are from the text: Daniel V. Schroeder, An Introduction to Thermal Physics, Addison Wesley Longman, 1999;
  - Please read 6.1;
1. Problem 6.3.
  2. Problem 6.5.
  3. Problem 6.6. Which term in  $Z$  dominates? How does that help you figure out the partition function?
  4. Problem 6.10.