Department of Physics, University of Maryland, College Park, MD 20742-4111

Physics 404

HOMEWORK ASSIGNMENT #9

Spring 2007

Due date: Tuesday, May 1 **Deadline:** Thursday, May 3

S means a problem in Schroeder's text; GT means a problem in Gould & Tobochnik.

- 1. S7.3
- 2. S7.8
- 3. S7.11
- 4. S7.13a,c
- 5. S7.19
- 6. S7.26a,b
- 7. S7.28 In part d, you should en route get the result $N \propto (1/\beta) \ln[1+e^{\beta\mu}]$, with the proportionality constant related to the density of states.