**Physics 224** **Fall 1998**

**Phenomenology** **due 11:00 am Tuesday Oct. 13**

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## PROBLEM SET 2

1. Eisberg and Resnick: 1.16
2. Eisberg and Resnick: 11.3 (Note that in terms of the notation used in class $\varepsilon_F = \mu$.)
3. Eisberg and Resnick: 11.5 (Note that in terms of the notation used in class $\alpha = -\beta\mu$.)
4. Plot the blackbody distribution spectrum $\rho_T(\eta)$ versus $\eta = \hbar\omega/kT$ at T=3 K.
5. Eisberg and Resnick: 1.19 (Hint: Use the result of the previous problem and the result stated in problem 1.18.)
6. Eisberg and Resnick: 1.12