

**PHYSICS 332-0 STATISTICAL MECHANICS**

Ian Low, Spring 2011

Course Webpage:

[http://www.hep.anl.gov/ian/teaching/Under\\_SM/Under\\_SM\\_Spring2011.html](http://www.hep.anl.gov/ian/teaching/Under_SM/Under_SM_Spring2011.html)

*ASSIGNMENT #4*

Due at 2 PM, April 25th

**Reading:** Sections 3.5 – 3.12 of Reif.

**Problems:** 2.3, 3.3, 3.5, and 3.6 of Reif's.

*NOTE:* I have discussed parts of 2.3 and 3.3 in the discussion section, but skipped many details due to lack of time. You need to fill in the details here. (These are two important exercises!) For those who missed the discussion section, you should still be able to work through the problems based on what we discussed in the lectures.