ASTR 792 T/R 9:30 - 10:45 AM Due December 5

## Week #16

## Draine 27.1a

Consider an HII region consisting only of hydrogen. Suppose that the source of ionizing photons is a blackbody with temperature  $T=32000~\rm K$ . Assume the nebula is in thermal and ionization equilibrium.

(a) Near the center of the nebula, at what temperature will heating by photoionization balance cooling?