

Chem 1061
Fall 2004
Quiz 3 (Take-home quiz)

The following problems are due Thursday, Dec 2 at the beginning of class.

1. Calculate the energy of the photon emitted when an electron in a hydrogen atom undergoes a transition from energy level $n = 3$ to level $n = 2$. What frequency and wavelength light does this correspond to?
2. Write the full electron configuration for Germanium ($Z = 32$) and the abbreviated electron configuration for Lead ($Z = 82$).
3. Write the abbreviated electron configurations for the following ions: S^- , S^{2-} , Al^{3+} , Sn^{+2} , and Fe^{3+} .