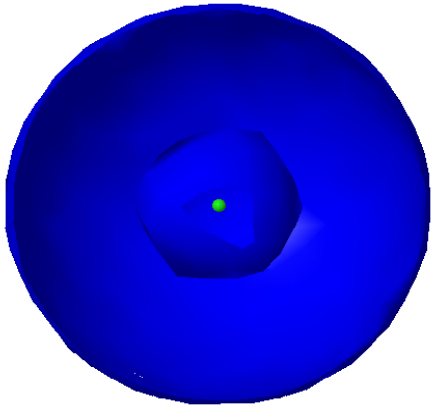
Announcements

To join clicker to class today (Clickers with LCD display join automatically):

- Turn on the Clicker (the red LED comes on).
- Push "Join" button followed by "20" followed by the "Send" button (switches to flashing green LED if successful).

- Get one of the clear slides being passed around (PLEASE RETURN IT BEFORE YOU LEAVE CLASS)
- Exam scores posted.
- Check your score.

Review



- We have atoms...
- Data considered in discussion suggests:
  - Some electrons harder to remove than others.
  - Combined with Coulomb's law ($U=kq_1q_2/d$) likely that easier ones farther from nucleus.
  - Shell-like arrangement with specific number of electrons in each shell.

Chapter 3- Atomic Structure
(light interaction with e^-)

A. Historical perspective
B. Rutherford Experiment
C. Evidence of quantization from light
D. Bohr Model (Rydberg Equation)
E. Wave Particle Duality (Debroglie relation)
F. Modern model of atom
G. Pauli exlusion principle and electron spin
H. Order of subshell filling/energy (from ionization energies)
I. Electron configurations from the periodic table
J. Periodic trends and how they are related (atomic size, ionization energy, electron affinity, ionic radii, formation of ionic compounds)

Chang Fig. 2.6