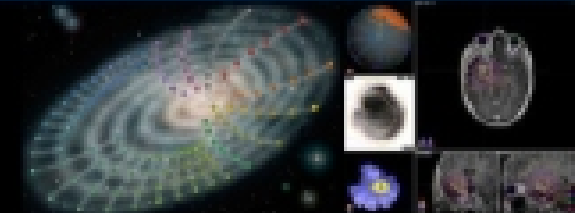
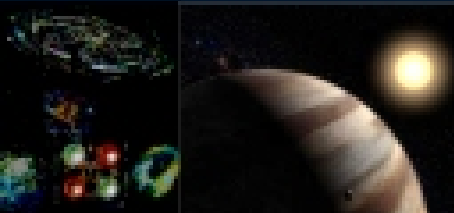


# Chapter 28

## Atomic Physics

# Atom Physics

## Sections 1-4



# Importance of Hydrogen Atom

- Hydrogen is the simplest atom
- Enables us to understand the periodic table
- Ideal system for performing precise comparisons of theory with experiment
- Much of what we know about the hydrogen atom can be extended to other single-electron ions
  - For example,  $\text{He}^+$  and  $\text{Li}^{2+}$

