

## Lecture 17

### Pre-Lecture Preparation (due within the first 5 minutes of class):

- Read pages 868 – 873 in the textbook (Serway 9<sup>th</sup> edition) and do the following:
  - 1) Quick Quizzes: 29.1
  - 2) Book Objective Questions (p. 893): 1, 3, 5, and 8
  - 3) Book Problems (p. 895): 2

### Goals for the Lecture:

- 1) Understand magnetic field lines and how to draw them
- 2) Understand the magnetic force on charged particles and be able to solve problems involving magnetic forces
- 3) Understand the right hand rule (well, one of them, we have several right hand rules) for cross products and how to use it to find the direction of the magnetic force

### Post-Lecture Study Guide (I do not collect this):

Review the worksheets or other lecture material within 24 hours (preferably the same day as the lecture) to reinforce the ideas. Review the pre-lecture questions to make sure you understand them.

Do problems:

Ch 29: Conceptual Questions: 1

Ch 29: Objective Questions: 2 and 6

Ch 29: Problems: 3 and 10

Continue with the additional recommended study problems from chapter 29