

Oberlin College Physics 110, Fall 2011

## Assignment 8

Wednesday, 2 November

*Reading:* Start reading HRW chapter 10 (“Rotation”), pages 49–52 (“The vector product”), and chapter 11 (“Rolling, Torque, and Angular Momentum”). There is a lot of material here and you will have two weeks for this reading. Read it with greater or lesser intensity depending upon your own interests.

*Workshops:* The Wednesday–Thursday workshop for this week is “Simple Harmonic Motion”. This lab will be graded in detail. That is, you will leave your lab notebook off with your instructor at the end of lab, and rather than scan it quickly, he will go through it in detail, noting suggestions and rating your work. This evaluation will count for one third of your lab grade.

*Informal Friday:* At the optional Friday class meeting for this week, on 4 November, Professor Steven FitzGerald will speak concerning “Quantum Mechanics Meets the Hydrogen Economy”.

*Early warning:* Second **exam** coming up on **Wednesday, 16 November!**

*Problems:* Due Wednesday, 9 November.

- HRW problem 8-12: *Snowball*
- HRW problem 8-22: *Ski jump*
- HRW problem 8-34: *Ice mound*
- HRW problem 8-36: *Spring gun*
- HRW problem 8-40: *Oxygen molecule*
- Additional problem 81: *Daredevil astronomer*
- HRW problem 9-53: *Car hits moose*
- HRW problem 9-90: *Neutrino* (omit part c)

