

For: Thursdays, April 27, May 4, 2006

Remember, you can volunteer to explain any of these at the board. You don't need to work them all out, these are the problems most closely related to the recent lectures.

Problems in Jackson's 3rd edition:

16.2 Nonrelativistic charge in decaying circular motion

16.6 Model for a charged particle and its mass

16.7 Dirac relativistic radiation reaction force

16.8 Lorentz-Dirac equation of motion for a charge

16.9 Radiation reaction force of the Lorentz-Dirac equation

16.11 Nonrelativistic acceleration across a gap with radiation reaction

16.12 Collisional broadening of spectral lines