CHAPTER 7: DIFFRACTION

Reading:

Chapter 7 of Blandford and Thorne.

TA:

The TA for this problem set is Xinkai Wu

Problems

DUE DATE: Wednesday 22 November – to be handed in along with your solutions for Chapter 8. Class on this date will begin 45 minutes later than usual, at 1:45PM.

NOTE: If any problem is trivial for you, do not do it. Simply state that it is trivial and pick some other problem to do instead (particularly interesting might be Exercise 7.7 Seeing in the Atmosphere and Exercise 7.8 Spy Satellites), or make up your own problem related to the chapter.

A. Exercise 7.1. Pointillist Painting, OR Exercise 7.2 Thickness of a Hair
B. Exercise 7.3. Diffraction Grating, OR Exercise 7.5. Light Scattering by Particles
C. Exercise 7.10 Convolution via Fourier Optics