

## CHAPTER 6: GEOMETRIC OPTICS

### Reading:

Chapter 6 of Blandford and Thorne.

### Problems

A. Do:

1. Exercise 6.2 Gaussian wave packet and its spreading, or
2. Exercise 6.4 Gravitational waves from a spinning neutron star.

B. Do: Exercise 6.8 Geometric optics for the Schroedinger equation

C. Do:

1. Exercise 6.10 Matrix optics for a refracting telescope, or
2. Exercise 6.11 Rays bouncing between two mirrors

D. Do:

1. Exercise 6.6 Sound waves in a wind, or
2. Exercise 6.13 Point mass gravitational lens