

Physics 221B
Spring 2012
Homework 17
Due Friday, February 10, 2012

Reading Assignment:

A lot of the material from this week is covered only in hand written notes. See the web pages for the lectures of the week. For Monday, January 30, please read the handwritten notes, pp. 11-15, which covers the method of phase shifts for central force scattering. For Wednesday, February 1, please read the handwritten notes, pp. 1-11, which covers hard sphere scattering, the general properties of phase shifts, and s -wave scattering. For Friday, February 3, please read the handwritten notes, pp. 11-16, which covers the optical theorem.

In addition, please read Notes 34, pp. 8-11 and Notes 35, pp. 1-5.

Please do Problem 34.1.