

PHY 491, Homework 8  
November 11, 2011

**Problem 8.1**

Problem #2, Chapter 3

Compares the subtle difference between different types of crystal structures for Lennard Jones solids.

**Problem 8.2**

Problem #3, Chapter 3

**Problem 8.3**

Problem #5, Chapter 3

Nice problem involving Madelung energy and repulsive energy for a 1-dimensional ionic crystal

**Problem 8.4**

Problem #7, Chapter 3

Nice problem about ionic solids and the stable ionic configuration.