

**King Fahd University of Petroleum and Minerals**  
**Physics Department**  
**Phys-212: Modern Physics**  
**Spring 2002**

**Assignment # 6**

**Date: Mon. Apr.3.2002**

**Due Date: Mon. Apr.8.2002**

*I encourage group discussion, but not copying (cheating).*

Problem.1. Textbook Exercise 2 p. 199

Problem.2. Textbook Exercise 3 p. 201

Problem.3. Textbook Exercise 6 p. 5.8

Problem.4. Textbook Prob.5.9

Problem.5. Textbook Prob.5.11

Problem.6. Textbook Prob.5.13

Problem.7. Go to the following web sites and write your observations:

<http://thorin.adnc.com/~topquark/quantum/heisenbergmain.html>

<http://hyperphysics.phy-astr.gsu.edu/hbase/quacon.html>