(Spring 2014, Blackman) PHY 227 Problem Set 6 (Due 6pm 4/18/14)

1. Book Problem 7.7

2. Book Problem 7.8

3. Book Problem 7.9

4. Book Problem 7.13: For this problem, no need to get exact formula in the "intermediate" regime between quantum and classical limits. You can approximate the shape of the curves in that intermediate regime by smoothly connecting the two limits separately for the boson and fermion curves. Also for part b) use spin 1/2 Fermion.

5. Book Problem 7.14