

October 29, 2003

I. PROBLEM SET 4

- 12) Chapter 7. Problem 1.
- 13) Chapter 7. Problem 2.
- 14) Chapter 7. Problem 3.
- 15) Chapter 8. Perform all the steps for bosons that were discussed in Chapter 8 for the case of fermions related to the single-particle propagator. In particular, obtain the Lehmann representation and the result for the ground-state energy (and expectation values of one-body operators).

Turn these problems in on Wednesday, November 4.