

P621—Quantum Field Theory
Fall, 2011
Problem Set 2
Due: Tuesday, October 4

In class we have been developing the theory of the real scalar field. To solidify your understanding of this development, you will generalize from a real scalar field to a complex scalar field.

- 1.) Problem 3.5 from Srednicki.
- 2.) Problem 5.1 from Srednicki.
- 3.) Problem 8.7 from Srednicki; however, you don't have to verify your results by the method of problem 8.4.