

PHY 5669 : Quantum Field Theory B, Spring 2016

February 2nd, 2016

Assignment # 2

(due Tuesday February 16th, 2016)

1. Using the functional integral formalism calculate the four-point function for a quantum scalar real field (see Eq.(9.41) of your text book). Show explicitly how you proceed in the calculation.
2. Problem 9.1 of Peskin and Schroeder's book.