Lectures and Reading Assignments:

Readings are from “An Introduction to QFT” by Peskin and Schroeder.

- Lec 15, 10/25 (Mon): S-matrix, Invariant Matrix Element and Cross Section. Interaction picture Sec. 4.5, 4.2
- Lec 16, 10/27 (Wed): Wick’s Theorem and Feynman Propagator Sec. 4.3, 2.4 (pp. 29–31)
- Lec 17, 11/01 (Mon): Feynman Diagrams Sec. 4.4, 4.6
- Lec 18, 11/03 (Wed): Feynman rules for Fermions Sec. 4.7

Problems: Numbered problems are from Peskin and Schroeder, Ch. 4.

1. Problem 4.2
2. Problem 4.3