PHY 5667: Quantum Field Theory A, Fall 2005

November 17^{th} , 2005Assignment # 6 (due Thursday December 8^{th} , 2005)

- 1. Derive Klein-Nishina formula (Eq. (5.91)) showing all the details of your calculation.
- 2. Calculate in detail the UV divergent part of the electron self-energy and of the electron vertex function using Pauli-Villars regularization.