Homework 3

- (15 points) Obtain the propagator of photon in the Lorentz gauge, adding the approproate gauge fixing term to the QED langrangian and by obtaining equation of motion for the electromagnetic field.
- 2. (15 points) The same as above but for class of axial gauges.
- 3. (20 points) Using Feynman rules calculate the differential cross section of elastic electron muon scattering.