

Physics 615

Fall, 2013

Homework #8.

Due Nov. 5 at 3:00

1 [10 pts] Do problem 5.2 from Peskin and Schroeder, which is to calculate Bhabha scattering, the e^+e^- differential elastic scattering, unpolarized, to lowest order in QED. You may assume $E_{\text{cm}} \gg m_e$, so set m_e to zero, except that in discussing the divergence when $\theta \rightarrow 0$, please explain whether the electron mass removes the divergence.