

Physics 615 Due Nov. 22, 2013
Homework #10

1 [10pts] Do problem 6.3 from Peskin and Schroeder. This problem explores whether the measured values of $g - 2$ places limits on the existence of possible postulated but undiscovered particles.

Assuming, of course, that the 125 GeV particle found on July 4 is the Higgs, is it possible that the latest discrepancy¹ in a_μ , which is 2.49×10^{-9} , is due to the Higgs?

¹Aoyama, Hayakawa, Kinoshita, Nio, arXiv:1205.5370v3.