

Physics 752, Elementary Particles II, Spring 2007, O.W. Greenberg

Homework: Assignment 2, due 2/9/07

1. Write the wavefunction for the proton with spin up using first quantized form and compare with the second quantized form discussed in class.
2. Calculate the ratio μ/μ_p for each state in the same octet. Find recent data for these magnetic moment ratios and compare with the above predictions.
3. Why do we require that operators in the mass formula have $S = 0, I = 0, Y = 0$ for the 56?