

8.811 Particle Physics
Min Chen

Fall, 2004

Assignment 1,
Due in class at 11:00AM, Sept. 28

1. Prob. 2.3 in Q&L.
2. Prob. 2.6 in Q&L. Save the rotation matrices for computing angular distributions of various cross sections later.
3. Use the symmetric spin-flavor wave functions of the ground state baryons to find the ratio of the magnetic dipole moments of a proton and a neutron.
4. Prob. 2.21 in Q&L.
5. Prob. 2.25 in Q&L.
6. Prob. 2.27 in Q&L.