Phys 4900, Fall 2011 Problem Set #2

- 1. Griffiths EP, 1.7 Possible strong decays must conserve charge and (total) strangeness. But for only about 6 of these is the total mass of the products less than the mass of the decaying particle.
- 2. Griffiths EP, 1.8 Consider the possible decays which conserve strangeness. Are they kinematically allowed?
- 3. Griffiths EP, 2.1
- 4. Griffiths EP, 2.2
- **6.** Griffiths EP, **2.6** Big hint: Recall that the electroweak theory has a vertex linking a Z and two W's and a vertex linking a photon and two W's.
- **5.** *Griffiths EP*, **2.7 a**)− **e**)