

Problem Set 8

Physics 363
May 21, 2008

Spring Quarter 2008
Due in class Wed. May 28.

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Reading: Perkins Chapter 9.

Problems:

1. Write down the mixing matrix for neutrinos with the current values.
2. Which experiments may be possible to distinguish the 'normal' hierarchy from the 'inverted' hierarchy in the neutrino mixing matrix?
3. Write a paragraph or two on how you think the fermion sector (e.g. states, numerical values of masses and mixings) will be explained 50 years from now.