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Family Symmetries

Saturday 13 December 2008 11:00 (45 minutes)

In the lepton sector the atmospheric and solar mixing angles are large, in stark contrast with the quark sector where all the mixing angles are small. I will discuss how, if neutrino masses are generated by the seesaw mechanism, this difference can naturally result in a manner consistent with an underlying quark-lepton symmetry. Morever the near tri-bi-maximal mixing observed in the neutrino sector strongly suggests that there is an underlying spontaneously broken non Abelian discrete family symmetry.

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