



Contribution ID: 11

Type: not specified

A Perturbation Parable: Relating the neutrino oscillation parameters

Thursday 26 June 2014 17:00 (20 minutes)

Popular lepton mixing models are in clear disagreement with the recent oscillation observation of nonzero θ_{13} . We show that by supplementing these models by a single perturbation the conflict can be addressed. Starting from a point where θ_{13} is zero and the first two neutrino mass eigenstates are degenerate leading to no solar splitting initially, we device a perturbation that splits the degeneracy as well as generates nonzero θ_{13} in one stroke thereby relating them. A neutrino mass model to justify the origin of the mass matrices will also be presented that will demonstrate the execution of the procedure.

Author: Ms PRAMANICK, Soumita (Department of Physics, University of Calcutta)

Presenter: Ms PRAMANICK, Soumita (Department of Physics, University of Calcutta)

Session Classification: Problems Class/Student Talks