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A Perturbation Parable: Relating the neutrino oscillation parameters

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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 devise 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.

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