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A new class of invariants in Lepton sector

In this talk we introduce a new class of combinations of neutrino mass matrix elements which are invariant under basis transformations. We discuss how these invariants can be used to formulate conditions of vanishing CP-phases (both Majorana and Dirac phases). Also, there is a rich literature on neutrino mass models that are based on certain symmetries that are manifest only in a special basis. Using these invariants, we can check for these symmetries in a general basis. This talk is based on our recent paper arXiv:hep-ph/0711.0448.

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