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Prediction of Leptonic CP Violation

We propose a possibility to predict the (Dirac-type) CP phase in terms of two or three neutrino mixing angles in case that the neutrinos are Majorana particles. This can be achieved by the relations, expressed in terms of neutrino mixing angles and the CP phase in the standard parametrization. And the expressions are derived from the equivalence between the standard parametrization of the neutrino mixing matrix and modified tribimaximal or bimaximal mixing matrices with appropriate CP phases. Carrying out numerical analysis based on the current experimental results for neutrino mixing angles, we can predict the values of the (Dirac-type) CP phase for several possible cases.

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