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Predictions for the Leptonic Dirac CP-Violating Phase

Wednesday 26 May 2021 14:00 (15 minutes)

We explore the theoretical constraints on the observable parameters of neutrino mixing on predictions for the leptonic Dirac CP-violating phase within a class of theoretical models that include a single source of CP violation due to charged lepton corrections, with additional assumptions made regarding specific ansatzes for the probability distributions of the continuous input parameters. We consider two scenarios: one in which the model parameters have independent distributions, and another in which the model parameters have conditional probability distributions that can generally better reproduce the observable mixing angle distributions. In both cases we can guarantee a physically meaningful prediction for the most likely range of values for the leptonic Dirac CP-violating phase.

Summary

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