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Predictions for the Leptonic Dirac CP-Violating Phase

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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. As a means to enforce unitarity of the lepton mixing matrix, we assume specific ansatzes for the probability distributions of the continuous input parameters and calculate the distributions of the observable lepton mixing parameters. The approach guarantees that a physically meaningful prediction for the most likely values for the leptonic Dirac CP-violating phase within these simple scenarios is automatically obtained.

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