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Deviations to Tri-Bi-Maximal mixing in the limit of $\mu - \tau$ symmetry

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In the limit of an approximate $\mu - \tau$ symmetry in the neutrino mass matrix, we explore deviations to the Tri-Bi-Maximal mixing pattern in the neutrino sector. The correction matrix is parametrized as $U_{ij}(\phi, \sigma)U(\alpha_1, \alpha_2)$, where ϕ is the rotation angle in the ij flavors, and σ, α_1 and α_2 are complex phases. We show that the $ij = 13$ and 23 scenarios are able to predict the current values of neutrino mixings and that it is possible to constrain the Majorana CP phases by studying their correlation with the mixing angles. We study the impact of such predictions in the neutrinoless double beta decay. The predicted regions are sharp for the quasi-degenerate ordering and can be tested in forthcoming experiments.

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