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Two texture zeros and neutrino mass matrix

The non-zero value of the reactor mixing angle θ_{13} has ruled out the possibility of μ-τ symmetry in neutrino mass matrix, there can still be a magic symmetry in neutrino mass matrix. In this context, we explore several classes of two texture zeros such as Class A, Class B, Class C and Class D in magic neutrino mass matrix and obtain the relation between one unknown phase ϕ and two known parameters: Δm_{23}^2 and ratio of two mass square difference (r=$\Delta m_{12}^2/\Delta m_{23}^2$). We also analyses the variation of unknown phase ϕ with respect to mixing angles (θ_{13} and θ_{23}), Dirac CP violating phase δ, Majorana phases (α and β) and Jarlskog invariant CP violation parameter J and their experimental validity.

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