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A phenomenological study of trimaximal neutrino mixing (TM_1 and TM_2) with a vanishing minor.

Thursday 15 December 2022 14:00 (1 hour)

We explore the phenomenological implications of one vanishing minor in neutrino mass matrix using trimaximal mixing matrix. We analyse all the six possible patterns of one vanishing minor in neutrino mass matrix for both TM_1 and TM_2 mixing matrix. We predict the value of sum of neutrino masses and effective Majorana masses for all the patterns. We also analyse the variation of total neutrino mass, effective Majorana mass and Majorana CP violating phases α and β with respect to unknown parameter ϕ .

Session

Neutrino Physics

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