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Cobimaximal neutrino mixing in type-I seesaw model with A_4 flavor symmetry

Here we explore a minimal model to understand the cobimaximal lepton mixing ansatz based on non-Abelain discrete flavor symmetry. As an example, we show that this mixing scheme can be reproduced within the framework of A_4 discrete flavor symmetry. Guided by the symmetry considered, we explicitly construct the relevant lepton mass matrices. Tiny neutrino mass and mixing are analyzed here relying on the type-I seesaw mechanism and study the associated phenomenology. Subsequently, we make predictions on the absolute neutrino mass and effective neutrino mass parameter responsible for neutrinoless double beta decay. We further study the implication of the scenario in generating the lepton asymmetry
of the universe.

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