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Neutrino Mass Matrix with unique Correlations

A minimal and predictive Majorana neutrino mass matrix texture is proposed. The texture involves four parameters that reveal unique correlations and predict the three neutrino mass eigenvalues, while strictly ruling out the inverted hierarchy. Furthermore, it imposes constraints on the three CP-violating phases. Based on these predictions, we estimate both the effective Majorana neutrino mass and the CP asymmetry parameter. The proposed texture can be derived from a discrete symmetry within the framework of the seesaw mechanism.

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