

Abstract Submitted
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A New View of PMNS Matrix and Charged Lepton Mass Matrix in the Model of Electroweak-scale Right-handed Neutrino TRINH LE¹, HUNG PHAM², University of Virginia — We present a model of neutrino masses within the framework of EW- ν_R model in which the experimentally desired form of the PMNS matrix is obtained by applying an A(4) symmetry to the *Higgs singlet sector* responsible for the neutrino Dirac mass matrix. This mechanism naturally avoids potential conflict with the LHC data which severely constrained the Higgs doublet sector. Moreover, by making a simple ansatz we extract $\mathcal{M}_\downarrow \mathcal{M}_\downarrow^\dagger$ for the charged lepton sector.

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