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Seesaw models for Dirac Neutrinos

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We describe the many pathways to generate Dirac neutrino mass through generalized dimension-5 operators a la Weinberg and dimension 6 operators. The presence of new scalars beyond the Standard Model Higgs doublet implies new possible field contractions, which are required in the case of Dirac neutrinos. We also notice that the extra symmetries needed to ensure the Dirac nature of neutrinos can also be made responsible for stability of dark matter.

Authors: CENTELLES CHULIÁ, Salva; Dr SRIVASTAVA, Rahul (Instituto de Fisica Corpuscular (IFIC), Valencia - SPAIN); Prof. WF VALLE, Jose (AHEP Group at IFIC, CSIC- U Valencia)

Presenter: CENTELLES CHULIÁ, Salva

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