

Seesaw roadmap to neutrino masses

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We describe the many pathways to generate Majorana and Dirac neutrino mass through generalized dimension-5 operators à la Weinberg. 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, in the Dirac neutrino case, the extra symmetries needed to ensure the Dirac nature of neutrinos can also be made responsible for stability of dark matter.

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