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Neutrino masses from new generations

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We reconsider the possibility that Majorana masses of the three known neutrinos are generated radiatively by the presence of a fourth generation with both Dirac and Majorana masses. We find that the observed light neutrino mass hierarchy is not compatible with the usual experimental tests of the Standard Model in this minimal scenario, but all present data can be accommodated with five generations. Within this framework, we explore the parameter space regions which are currently allowed and lead to observable effects in lepton flavour and lepton number violating experiments.

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