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Origin of Neutrino Mass and the LHC

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To unravel the mystery of neutrino masses and mixing angles, we adopt a bottom-up approach based on effective operators which violate lepton number by two units. By opening the effective operators, we can find the corresponding minimal UV completions. We discuss how the minimal UV completions of the dimension-7 operators can be tested at the LHC as well as one example based on a dimension-9 operator.

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