

Polarization signatures from effective interactions of Majorana neutrinos

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We study the capability of angular and polarization observables to disentangle different new physics contributions to the production of heavy sterile Majorana neutrinos in the lepton number violating channels $e^- p \rightarrow l_j^+ + 3jets$ ($l_j \equiv e, \mu$) and $e^+ e^- \rightarrow \tau^+ \tau^- + 4jets$ in electron-proton and electron-positron colliders. This is done investigating the angular and polarization trails of effective operators with distinct Dirac-Lorentz structure contributing to the Majorana neutrino production, which parameterize new physics from a higher energy scale.

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