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Polarization signatures from effective interactions of Majorana neutrinos

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 $e^-p \rightarrow l_j^+ + 3jets$ ($l_j = e, \mu$) and $e^+e^- \rightarrow^{++} + 4jets$ 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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