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HNL Dipole Portal at Muon Collider

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The proposed Muon Collider Facility, when finalized, is going to offer great opportunities for discovering new physics. At high energies, muons can produce heavy neutral lepton (HNL), well-motivated beyond the Standard Model (SM) particles, which can potentially explain neutrino mass via seesaw mechanism. HNL can interact with the SM sector via transition magnetic moment, and in this talk, I will present its production and decay channels in the context of muon collider. Finally, I will also present the sensitivity of muon collider to probe the dipole couplings to the SM gauge bosons and HNL mass.

Mini Symposia (Invited Talks Only)

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