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Majorana vs Pseudo-Dirac Neutrinos at Electron-Positron Colliders

Tuesday 24 July 2018 15:10 (20 minutes)

Neutrino oscillation phenomenology requires an explanation for the origin of neutrino masses. Low-scale models, generally motivated by symmetry arguments, have been shown to be testeable at current and future colliders.

We consider the possibility of distinguishing the Pseudo-Dirac or Majorana nature of new heavy neutrinos at Electron-Positron colliders. We show that lepton number violating decays can be distinguished by analysing the angular distribution of heavy neutrino decays, with a very strong dependence on the ratio of their mass difference and decay widths.

Parallel Session

BSM aspects of Flavour and Neutrino Physics

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