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Lepton Number Violation and W' Chiral Couplings at the LHC

Monday 7 May 2012 15:15 (15 minutes)

Abstract:

We study the observability for a heavy Majorana neutrino N along with a new charged gauge boson W' at the LHC. We emphasize the complementarity of these two particle in their production and decay to uambiguously determine their properties. We show that the Majorana nature of N can be verified by the lepton-number violation process and by an azimuthal angular distribution. The chirality of the W' can be determined by the polar angle distributions in the reconstructed frame.

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