



ID de Contribution: 38

Type: Ordinary

Lepton Number Violation with and without Majorana Neutrinos

dimanche 15 mars 2015 19:25 (15 minutes)

We discuss the various incarnations of a gauged B-L symmetry: 1) as an unbroken symmetry, it features Dirac neutrinos, neutrino genesis to create the baryon asymmetry, and a potentially light Z' boson; 2) broken by two units, we obtain the standard case of Majorana neutrinos, seesaw and thermal leptogenesis; 3) broken by four units, we find Dirac neutrinos with lepton-number-violating interactions, which can give rise to a new Dirac leptogenesis mechanism. We review and discuss the signatures distinguishing the three scenarios.

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Classification de Session: Neutrino Physics

Classification de thématique: Theory