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Lepton Number Violation and Muon-to-Positron Conversion

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There is no guarantee that the violation of lepton number, assuming it exists, will primarily manifest itself in neutrinoless double beta decay. Lepton-number violation and lepton-flavor violation may be related, and one complementary observable to double beta decay is muon-to-positron conversion. In this talk, I will discuss an effective field theory approach to estimating muon-to-positron conversion rates for dimension-five, -seven, and -nine operators. I will also discuss the relationship between these lepton-number-violating processes and the Majorana neutrino masses the new operators generate.

Summary

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