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Lepton Number Violation and neutrinoless double beta decay

Friday 27 September 2019 10:00 (25 minutes)

In this talk I will discuss searches for neutrinoless double beta decay as a probe of lepton number violation. After a general introduction, I will discuss an “end-to-end” effective field theory approach to neutrinoless double beta decay based on the Standard Model EFT at high scales and on chiral effective theory at hadronic and nuclear scales. In this framework, I will discuss various sources of lepton number violation, ranging from light Majorana neutrino exchange to TeV-scale mechanisms.

Presenter: CIRIGLIANO, Vincenzo (Los Alamos National Laboratory)

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