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Effective field theory approach to neutrinoless double beta decay

Monday, May 27, 2019 12:00 PM (30 minutes)

In this talk I will discuss a theoretical approach to neutrinoless double beta decay based on effective field theory (EFT). I will describe an end-to-end analysis that starts from the high scale where lepton number violation originates and evolves the dynamics all the way down to nuclear scales, using at each stage the appropriate effective theory (from the Standard Model EFT to chiral EFT). After an overview of the method, I will focus on the light Majorana neutrino exchange mechanism.

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Session Classification: Session (Chair: O. Civitarese)