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Neutrinoless Double Beta Decay and BSM Physics

Wednesday 4 July 2018 10:00 (30 minutes)

Neutrinoless double beta (0vbb) decay is the most powerful tool to probe not only for Majorana neutrino masses but for lepton number violating physics in general. I will discuss the connections between lepton number violation, double beta decay and neutrino mass, highlighting recent experimental and theoretical efforts. Extending the standard picture of light neutrino exchange, I will review a general Lorentz invariant parametrization of the 0vbb decay rate and the resulting constraints on new physics models. Finally, I will discuss the relation between 0vbb decay and models of baryogenesis.

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