



ID de Contribution: 31

Type: Non spécifié

## Theoretical Overview of Double Beta Decay

*lundi 13 février 2023 16:30 (30 minutes)*

I will discuss theoretical aspects of and recent developments in double beta decay. Focussing on the neutrinoless mode, I will review its role in our understanding of neutrinos and models of lepton number violation as the origin of light neutrino masses. I will attempt to elucidate connections with models of baryogenesis, specifically leptogenesis and I will describe the impact of an observation of neutrinoless double beta decay on the viability of baryogenesis mechanisms. Finally, I will also highlight the potential of the two-neutrino double beta decay mode to probe new physics.

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**Classification de Session:** Experiments