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Impact of Non-Standard Interactions on Low-Scale Leptogenesis and Neutrinoless Double Beta Decay (17'+3')

Thursday, October 10, 2024 3:20 PM (20 minutes)

In this talk, we investigate the interplay between the observation of lepton number violating processes and the generation of the baryon asymmetry of the Universe via low-scale leptogenesis. We focus on the impact of non-standard interactions, beyond the usual Majorana mass term, on the observation of neutrinoless double beta decay and the resulting parameter space for successful leptogenesis. Parameterizing these effects in a model independent way, we showcase how additional operators can influence the final baryon asymmetry.

Authors: WEBER, Sascha (JGU Mainz); Prof. HARZ, Julia; FUYUTO, Kaori (Los Alamos National Laboratory)

Presenter: WEBER, Sascha (JGU Mainz)

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