

Dark Matter Inelastic Scattering with Nuclei

Tuesday, 12 May 2026 15:25 (15 minutes)

The talk is devoted to the role of excited final nuclear states in WIMP-nucleus scattering. I will describe the basic formalism of non-relativistic effective field theory (NR EFT) and its generalization for excited nuclear states. The effect on expected event rates in direct detection experiments will be discussed, with the focus on xenon-based detectors.

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Session Classification: DM+Axion+early universe