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Detecting DM Decay into Gravitons: Theory and Forecasts

Friday 24 October 2025 16:10 (20 minutes)

Dark matter may not be completely stable, and its decay could lead to new signatures in the form of gravitational waves. In this talk I will present model-independent predictions for the stochastic gravitational wave background produced by dark matter decaying into gravitons. Using this framework, I forecast the sensitivity of current and upcoming gravitational wave detectors to these signals.

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