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Entropy and irreversible processes in gravity and cosmology

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Due to the quantum origin of primordial perturbations and the energy scales of the primordial plasma, the early universe is an ideal setup for the interplay between gravity, quantum physics and thermodynamics. Even though most of the expansion history of the universe is adiabatic, irreversible processes play a role in key cosmological events. In this talk I will discuss results and ongoing work on the role that entropy and irreversibility play in gravity and cosmology.

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