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Quantum decoherence during inflation

Friday 13 April 2018 11:20 (30 minutes)

Decoherence may play a role in the quantum-to-classical transition of primordial cosmological fluctuations. But if it occurs in the early Universe, the interaction with the environment that gives rise to it also changes observable predictions such as the power spectrum from inflation. I will show how this opens up the possibility to observationally probe quantum decoherence.

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