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The Universe (not quite) as a Quantum Lab

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Abstract: One of the most striking predictions of the standard model of cosmology is to trace back the origin of all the structures of our universe to quantum fluctuations. If we want to access the full implications of this statement, we need to evaluate the quantum information properties of inflationary models. In this talk, I will present the Cosmological Open Quantum System program and exhibit situations where the dynamics of cosmological inhomogeneities evade what was known so far in the lab.

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