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Abstract for an Invited Paper for the MAS20 Meeting of the American Physical Society

Cosmological Open Quantum Systems

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The inflationary paradigm strongly suggests that we use a quantum open systems approach to study the evolution of the universe. I will review this argument in the context of inflation, emphasizing the features that are likely to apply to other systems involving gravity. Then, I will introduce a toy model with qubits that may help to reframe outstanding questions about cosmological evolution.