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Inflation in Minimally Modified Gravity (MMG) theories

Minimally Modified Gravity (MMG) theories are gravity theories that differ from Einstein's General Relativity (GR) but do not propagate any additional degree of freedom in the gravity sector. Such theories have given rise to a new direction to the study of modified gravity theories and their cosmological implications are being investigated enthusiastically. In my talk, I will briefly outline the results of applying two such MMG models to cosmic inflation. The first one is the so-called $f(\mathcal{H})$ theories, that are constructed by modifying the Hamiltonian, instead of the Lagrangian, of GR. The second one is another class of MMG theories built out of Spatially Covariant Gravity (SCG) lagrangians, which can be thought of as scalar-tensor theories of gravity written in the unitary gauge.

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