Geometric Foundations of Gravity 2025



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Quintessential inflation in Palatini F(R,X) gravity

Palatini F(R, X) gravity, with X the inflaton kinetic term, proved to be a powerful framework for generating asymptotically flat inflaton potentials. Here we show that a quadratic Palatini F(R, X) restores compatibility with data of the Peebles-Vilenkin quintessential model. Moreover, the same can be achieved with an exponential version of the Peebles-Vilenkin potential if embedded in a Palatini F(R, X) of order higher than two.

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