

On the realization of the supersymmetric Starobinsky inflation with higher order corrections

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Starobinsky's R^2 inflation is still one of the most attractive inflation models. However, once we consider its supersymmetric version, we have no reason not to consider its higher order corrections, which would destroy the slow-roll evolution of the Universe and successful inflation and make the initial condition tuning severe. Here I show the constraint on the higher order correction to the supersymmetric Starobinsky model and the way to relax its initial condition problem.

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