

Cosmological attractor approximation in Einstein-Gauss-Bonnet gravity

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We construct models with the Gauss-Bonnet term multiplied to a function of the scalar field leading to inflationary scenario. The consideration is related with the slow-roll approximation. The cosmological attractor approach gives the spectral index of scalar perturbations which is in a good agreement with modern observation and allows variability for tensor-to-scalar ratio. We reconstruct models with variability of parameters which allow to reproduce cosmological attractor predictions for inflationary parameters in the leading order of $1/N$ approximation in the Einstein-Gauss-Bonnet gravity.

The talk is based on the paper by E.O. Pozdeeva, Eur.Phys.J.C 80 (2020) 7,612 [arXiv:2005.10133 [gr-qc]].

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