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## Quasi-scale invariant inflationary attractors

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Recently Kallosh, Linde, and collaborators have provided a unified description of single-field inflation in terms of just one parameter  $\alpha$ . These so-called  $\alpha$ -attractors predict a spectral index  $n_s$  and a tensor-to-scalar ratio  $r$ , which are fully compatible with the latest Planck data. The only common feature of all  $\alpha$ -attractors is a non-canonical kinetic term with a pole, and a potential analytic around the pole.

Starting from the same Einstein frame with a non-canonical scalar kinetic energy, we explore the case of non-analytic potentials and find that they all correspond to quasi-scale invariant gravitational models in the Jordan frame, characterised by a universal relation between  $r$  and  $n_s$  that fits the observational data but is clearly distinct from the one of the  $\alpha$ -attractors.

Since the breaking of the exact classical scale-invariance in the Jordan frame can be attributed to one-loop corrections, we desume that non-analytic potentials in the non-canonical Einstein frame are physically equivalent to an entire class of models in the Jordan frame, with scale-invariance softly broken by one-loop quantum corrections.

### Collaboration

L. Vanzo; S. Zerbini; G. Cognola; G. Venturi

**Author:** RINALDI, Massimiliano (University of Trento)

**Presenter:** RINALDI, Massimiliano (University of Trento)

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