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$\tilde{\xi}$ -attractors in metric-affine gravity

Monday, September 22, 2025 11:00 AM (30 minutes)

We propose a new class of inflationary attractors in metric-affine gravity. Such class features a non-minimal coupling $\tilde{\xi} \Omega(\phi)$ with the Holst invariant $c \tilde{al} R$ and an inflaton potential proportional to $\Omega(\phi)^2$. The attractor behaviour of the class takes place with two combined strong coupling limits. The first limit is realized at large $\tilde{\xi}$, which makes the theory equivalent to a $c \tilde{al} R^2$ model. Then, the second limit considers a very small Barbero-Immirzi parameter which leads the inflationary predictions of the $c \tilde{al} R^2$ model towards the ones of Starobinsky inflation. Because of the analogy with the renown ξ -attractors, we label this new class as $\tilde{\xi}$ -attractors.

Primary author: RACIOPPI, Antonio (NICPB, Tallinn, Estonia)

Presenter: RACIOPPI, Antonio (NICPB, Tallinn, Estonia)

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