**Geometric Foundations of Gravity 2025** 



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

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  $ca\tilde{l}R$  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  $ca\tilde{l}R^2$  model. Then, the second limit considers a very small Barbero-Immirzi parameter which leads the inflationary predictions of the  $ca\tilde{l}R^2$  model towards the ones of Starobinsky inflation. Because of the analogy with the renown  $\xi$ -attractors, we label this new class as  $\tilde{\xi}$ -attractors.

Author: RACIOPPI, Antonio (National Institute of Chemical Physics and Biophysics (EE))Presenter: RACIOPPI, Antonio (National Institute of Chemical Physics and Biophysics (EE))

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