Contribution ID: **44**   Type: **not specified**

$\tilde{\xi}$-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 $\tilde{cal R}$ 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 $\tilde{cal R}^2$ model. Then, the second limit considers a very small Barbero-Immirzi parameter which leads the inflationary predictions of the $\tilde{cal R}^2$ 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.

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

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