



Contribution ID: 82

Type: **not specified**

Scalar-nonmetricity cosmology in the general relativity limit

In symmetric teleparallel geometry, the curvature and torsion tensors are assumed to vanish identically, while the dynamics of gravity is encoded by the nonmetricity. Here the spatially homogeneous and isotropic connections that can accompany flat Friedmann-Lemaître-Robertson-Walker metric come in three sets. Working in the context of symmetric teleparallel scalar-tensor gravity with generic coupling functions, we show that the extra free function in the connection can not play the role of dark matter nor dark energy. We study under which conditions these cosmological spacetime configurations with radiation and dust matter content relax to the limit of general relativity.

Presenter: PATI, Laxmipriya (University of Tartu)

Session Classification: Posters of friday (ignore time)