Contribution ID: **52**   Type: **poster**

Correspondence Between Ricci-Based Theories of Gravity and General Relativity

Wednesday, 20 February 2019 18:23 (1 minute)

Driven by the the fact that a wide family of Ricci-based metric-affine theories of gravity can be reduced to a metric compatible framework, a formal correspondence between the space of solutions of these generalized gravity theories and the space of solutions of general relativity will be presented. The correspondence will be detailed in the cases where modified gravity is coupled to scalar and charged matter. These results allows to use well-established methods and results from General relativity to explore new gravitational physics beyond it.

The presentation will be based on the following recent publications : arXiv:1810.04239, arXiv:1807.06385, arXiv:1705.03806.

Summary

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Presenter: Dr ORAZI, Emanuele

Session Classification: Poster session

Track Classification: General Relativity and Cosmology