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Further analysis with metric-affine f(R) gravity

Tuesday, August 20, 2024 1:35 PM (10 minutes)

In modern cosmology, as we get more advanced in understanding GR there are a plethora of challenges face us related to its limitations. Furthermore, in some eras of the universe we eventually end up with real data values that do not match the ones we get from our theories and models.

It is worth mentioning that we can derive Einstein-Hilbert equations using different types of variations with various features, one of them is know as the "metric-affine f(R) gravity" which is is similar to the Palatini variation, but abandons the assumption that the matter action is independent of the connection. But from its name since it is a non-metric scenario that raises the question whether about its viability as a model, but it still manage to be the most general case of f(R) gravity since it includes a wide range of enriched phenomenology.

The presentation is going to discuss further details and suggestions related to the issue itself.

What area of study best describes your talk?

Physics

If you answered 'Other', please provide the study area.

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