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Cosmological Models in Gravitational Scalar-Tensor Theories

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In this work, a brief review of a new form of scalar-tensor theories of gravity, known as gravitational scalar-tensor theories (GST) in which the action is composed of the Ricci scalar and its first and second derivatives is made. Some of the cosmological applications that have been investigated in these new theories are discussed considering different models corresponding to the first non-trivial extensions of general relativity possessing $2 + 2$ degrees of freedom. We show that the resulting cosmological behavior is in agreement with observations.

Apply to be considered for a student ; award (Yes / No)?

Yes

Level for award;(Hons, MSc, PhD, N/A)?

PhD

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