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Reconstruct the history of the universe in f(T) gravity through observational data

Tuesday 12 November 2019 09:30 (1 hour)

Describing the accelerating expansion of the universe and understanding its causes is an important part of modern cosmology. In order to better understand the evolution form and physical nature of accelerated expansion, it is necessary to combine observation with theory to constrain various dark energy models and modified gravity models. We reconstruct the f(T) gravity model with the latest observation data in order to find a suitable f(T) model which can relieve the tension of different cosmological observations. We will use the effective field theory approach to investigate the evolution equations on particular model that satisfies the observational constraints at the background and perturbation level.

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