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Late-time Accelerating Universe in Teleparallel Gravity

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Even though the ΛCDM model is supported by overwhelming evidence, its predictive power has been recently called into question. In fact, the H_0 tension problem has prompted a reconsideration of novel approaches to formulating a consistent cosmological model. This issue might be resolved by considering theories beyond General Relativity. There exist many possible modifications of General Relativity which are largely built on correction terms to the Einstein-Hilbert action. Indeed, there is a growing interest in Teleparallel Gravity, a theory where torsion rather than curvature is considered as the form in which gravitation is expressed. In this context, we explore the behaviour of different cosmological models in the late Universe in which the modification is motivated by gravitational models in the literature such as $f(T)$ and $f(T, B)$ models.

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