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Current status of Dark Energy and beyond

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We present recent observational bounds on dark energy constrained by the type Ia supernovae, cosmic microwave background, and baryon acoustic oscillations. We review a number of theoretical approaches that have been adopted so far to explain the origin of dark energy. This includes the cosmological constant, modified matter models (such as quintessence, k-essence), and modified gravity models (such as $f(R)$ gravity, Galileons, Horndeski theories, massive gravity or vector theories). We distinguish between such theoretical models by taking into account recent observational data of red-shift space distortions and solar-system constraints.

Summary

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