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Modified Gravity at Crossroad

Thursday, 17 April 2014 11:00 (45 minutes)

I will review some of the recent progress and current status in the studies of two important modified gravity theories to explain the cosmic acceleration: Galileon gravity and $f(R)$ gravity. I will discuss possible cosmological, astrophysical or terrestrial constraints on these, and other related, theories for the near future. Based on these, I will promote Galileon gravity as a competitive alternative to Λ CDM and explain why it merits further studies from the wider community.

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