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Ip: "Solar System Constraints on Disformal Gravity Theories"

Thursday, 28 September 2017 17:10 (20 minutes)

[Coauthors: Jeremy Sakstein, Fabian Schmidt] (arXiV: 1507.00568) We wanted to see if (Horndeskian) disformal theories of gravity can be a driving mechanism of cosmic acceleration. Local test constraints on PPN parameters encoding preferred-frame effects (due to the SS moving against the cosmological background) require these theories to have a cosmology indistinguishable from LCDM, under the assumption of the equivalence principle.