

Massive Gravity

Monday, March 9, 2015 10:00 AM (45 minutes)

If the particle carrier of the gravitational force had a mass, gravity could behave differently as GR on cosmological scales thereby potentially tackling the dark energy and cosmological constant problems. I will review the cosmological behavior of this model as well as some of its extensions. In particular I will present some exact FLRW solutions in generalized massive gravity where the mass parameters are naturally promoted to Lorentz-invariant functions of the Stuckelberg fields. The existence of stable self-accelerating solutions will be discussed as well as some relevant phenomenology.

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