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Linear perturbations in massive bigravity: formalism and cosmology

Monday, 7 December 2015 16:35 (20 minutes)

In this talk I will discuss linear perturbations of dRGT massive bi-gravity with a single metric coupled to matter. First, I will introduce the formal derivation of the second order action for generic metrics. I will then use this result to identify stability bounds. Finally, I will discuss the linear perturbations on a FRW background, the cosmology of different branches, the number of degrees of freedom of the theory and the presence of instabilities.

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