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Introduction to Massive Bigravity

Abstract

In this introductory presentation to the extended model of gravity called Massive Bigravity, the field content of the theory and its consistency will be discussed. Comments on the Boulware-Deser ghost, the Vainshtein mechanism and the Stueckelberg fields will follow, according to a historically focused viewpoint.

The GR limit of the theory and some solutions will be given, and it will be explained how the coupling with external sources could mimic some features of Dark Matter.

The talk will be based on [arXiv:1512.00021v2](https://arxiv.org/abs/1512.00021v2), [arXiv:1401.4173](https://arxiv.org/abs/1401.4173) and [arXiv:1105.3735](https://arxiv.org/abs/1105.3735).