

DE MADRID AL COSMOS

COSMOLOGICAL SOLUTIONS IN BIGRAVITY

Prado Martín-Moruno
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Fecha:

Martes 25 de marzo
10:00 h.

Lugar:

Sala de Seminarios FT-I
Facultad de CC. Físicas, UCM

Abstract: Bigravity theories, which are formulated using two mutually interacting dynamical metrics, were initially introduced by Isham, Salam, and Strathdee in the seventies. These theories have recently attracted considerable attention since Hassan and Rosen found a bigravity theory which is potentially stable, that is, free of the Boulware–Deser ghost which otherwise affects these theories. As bigravity can be interpreted to describe two different universes, I will present a simple way to study the cosmology of such a classical bi-universe in general situations. I will pay particular attention to the interplay of both gravitational sectors and how one can extract conclusions about the dynamics of one universe from the knowledge about the occurrence of violent events in the other universe.



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