

SEMINARIO
Departamentos de Física Teórica I y II
Universidad Complutense de Madrid

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TITULO: Massive gravity, its quantum corrections and consistent couplings to matter

LUGAR: FACULTAD DE CIENCIAS FÍSICAS UCM

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ABSTRACT:

There has been a successful non-linear covariant ghost-free generalization of Fierz-Pauli massive gravity, the dRGT theory. I will explore the recent developments within the framework of the dRGT theory. I will quickly discuss the decoupling limit of this theory and its practicality.

Furthermore, I will address the question whether or not the theory is stable under quantum corrections. The aforementioned theory requires the coexistence of two metrics and therefore it is a natural question of how the matter fields couple to these two metrics. I will present the latest developments in this direction as well.