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

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TITULO: **Non-singular universes and cyclic cosmologies in modified gravity**

LUGAR: FACULTAD DE CIENCIAS FÍSICAS UCM
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ABSTRACT

In this talk, I will discuss the problem of future (and past) singularities in cosmology, in the frame of modified gravities and the possibility to avoid such singular scenarios by an ekpyrotic/cyclic cosmological evolution, an alternative description to the usual inflationary paradigm. Hence, I will show that a cosmological evolution free of singularities can be reconstructed in a classical scenario in the frame of modified gravities. The possibility of the occurrence of "pseudo-singularities", as the so-called Little Rip, will be also discussed.