

De *Madrid* al *Cosmos*

The smooth and clumpy universe:
present and asymptotic behaviour(s)

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Abstract: On this talk, we will present a review on dark energy singularities and abrupt events. We will start with a classical description of several models, including their behaviour at the perturbative level. Then, we will contrast our results with observational data. On the second part of the talk, we will focus on the quantum analysis of these singularities/abrupt events. The analysis will encompass also modified theories of gravity. Finally, if time allows, we will as well show how phantom dark energy models might not at all imply dark energy singularities in Einstein-Cartan theory.?

Ciclo de seminarios organizado conjuntamente por los grupos

- *Teorías Efectivas en Física Moderna* (UCM)
- *Gravitación y Cosmología* (IEM-CSIC)

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