

Spanish and Portuguese Relativity Meeting



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Navigating the Perils of Affinesia

Thursday 25 July 2024 09:30 (40 minutes)

In this talk I will review some of the pathologies that typically arise in modified gravity theories. I will adopt a geometrical perspective to modifications of GR taking the Geometrical Trinity of Gravity as starting point and will mainly focus on teleparallel theories. In particular, I will discuss the unavoidable presence of ghosts in the so-called $f(Q)$ theories. To end with a positive message, a class of ghost-free theories in the symmetric teleparallel framework that is based on a TDiff symmetry will be introduced.

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