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[colloquium] Scalar-tensor theories of modified gravity in cosmology and in strong-gravity objects

Thursday 23 March 2023 15:00 (1h 20m)

This talk will present theories of modified gravity that contain a single scalar degree of freedom, in particular the very general framework of Degenerate Higher-Order Scalar-Tensor (DHOST) theories, which includes and extends Horndeski and Beyond Horndeski theories. I will then discuss cosmological aspects of these theories, notably the dynamics of cosmological perturbations. I will also present some results on non-rotating black holes and their perturbations in the context of DHOST theories.

Presenter: LANGLOIS, David (Universite Paris Cite, CNRS, AstroParticule et Cosmologie)