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New avenues and observational constraints on functors of actions theories

Wednesday, 13 September 2023 18:20 (20 minutes)

In this talk, I will introduce a novel formalism for any field theory and apply it to the effective field theories of large-scale structure. The new formalism is based on functors of actions composing those theories. This new formalism predicts the actionic fields. Furthermore, I will discuss a generalised manifold with N-correlators of Nt- objects with or without contaminants. I will discuss our findings in a cosmological gravitology framework. We present these results with a cosmological inference approach and give guidelines on how we can choose the best candidate between those models with some latest understanding of model selection using Bayesian inference. references: https://arxiv.org/abs/2209.07472 A generalised manifold with N-correlators of Nt- objects, under review https://arxiv.org/abs/2010.06707 Functors of actions, published in Foundations of Physics journal

Presenter: NTELIS, Pierros (Aix-Marseille University) **Session Classification:** Parallel Session A