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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  $N_t$ - 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  $N_t$ - objects, under review <https://arxiv.org/abs/2010.06707> Functors of actions, published in Foundations of Physics journal

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