

Model Agnostic Tests of Gravity with Large Scale Structure

Stage IV large scale structure surveys are promising probes of gravity on cosmological scales. Due to the vast model-space in the modified gravity literature, model-independent parameterisations represent useful and scalable ways to test extensions of Λ CDM. In this talk, I will present recent work that shows how one can consistently parameterise and constrain modified gravity models with a redshift-binned clustering strength μ and a gravitational slip η . I will also discuss how one can expand this framework to account for additional complexity in the time and scale dependence of these bins when computing the $3\times 2pt$ data vector.

Author: SRINIVASAN, Sankarshana (Ludwig Maximilian University)

Presenter: SRINIVASAN, Sankarshana (Ludwig Maximilian University)

Session Classification: Flash talks

Track Classification: UK Cosmo