Dottorato di Ricerca in Fisica
(XLI Ciclo)

Proposta di Progetto di Ricerca

"Development of models of new physics and their cosmological analysis using galaxy survey data"

The project aims at the full exploitation of data from advanced galaxy surveys, such as DESI and Euclid, and other cosmological probes, to constrain or detect deviations from the current standard cosmological model. We will use cosmological data to search for deviations from the standard concordance model of cosmology. Through the use of rigorous physical modelling and statistical methods we will give the strongest bounds on deviations from the cosmological model. In case of statistically relevant tensions, we will develop theoretical models that can explain the data, and possibly become the new standard cosmological model.

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