

Model-agnostic interpretation of 10 billion years of cosmic evolution traced by BOSS and eBOSS data

Sunday 11 September 2022 09:00 (30 minutes)

In this talk I present the latest re-analysis of BOSS and eBOSS spectroscopic survey data and its implication in the current Λ CDM paradigm. In the first part of the talk I review how the large scale structure of the universe measures cosmological parameters, such as the expansion rate H_0 or the matter density Ω_m , from the baryonic acoustic oscillations (BAO), the redshift space distortions (RSD) and the shape of the power spectrum broadband. In the second part I will present the implication of these measurements within the context of Λ CDM models and extensions and the impact with the current tensions in cosmology.

Presenter: Dr GIL-MARÍN, Héctor