

The eBOSS Survey: Recent Results and Prospects

Thursday, 31 May 2018 16:40 (30 minutes)

I will present recent results and prospects for the SDSS/eBOSS survey (2014-2019), the last program completing the SDSS cosmological observations, which started some twenty years ago. The primary goal of those observations is to constrain dark energy through the measure of the distance-redshift relation with baryon acoustic oscillations (BAO) in the clustering of matter. eBOSS will use one million objects divided in four different tracers to expand the volume covered by SDSS/BOSS focusing on the redshift range $[0.6, 2.2]$. The eBOSS data will also bring constraints on other cosmological topics, as test of General Relativity on cosmological scales through redshift-space distortion measurements, or new constraints on the summed mass of all neutrino species.

E-mail

anand.raichoor@epfl.ch

Collaboration name

SDSS/eBOSS Collaboration

Primary author: Dr RAICHOOR, Anand (EPFL)

Presenter: Dr RAICHOOR, Anand (EPFL)

Session Classification: Cosmic Physics and Dark Energy, Inflation, and Strong-Field Gravity

Track Classification: CPDE