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国台学术报告 NAOC COLLOQUIUM

2022 年 第 10 次 / No. 10 2022

Time: Wednesday, 2:30 PM, Nov. 9th, 2022

Location: A601, NAOC

Cosmological implications of large galaxy surveys

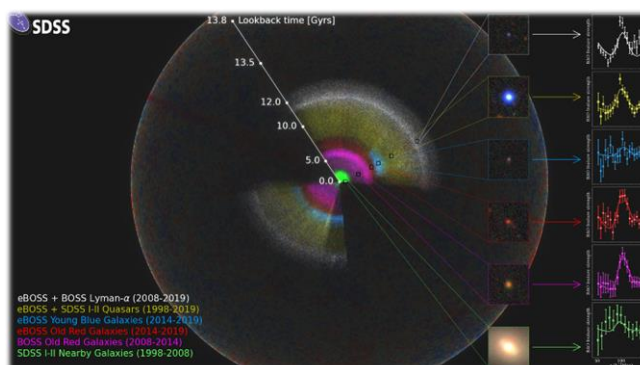
Prof. Gongbo Zhao (NAOC)



Prof. Gong-Bo Zhao is a faculty member and deputy director at NAOC, and has been working on cosmological implications of galaxy surveys over 15 years. He has been a science working group chair of the eBOSS collaboration since 2015, and has led the international team to accomplish the 5-year survey, with a series of influential science results.

Abstract

I will review the progress of the eBOSS galaxy survey, and present the data analysis and cosmological implications of the DR16 data sample, which includes ~1M spectra taken for the luminous red galaxies (LRGs), emission line galaxies (ELGs) and clustering quasars (QSOs). eBOSS allows for a multi-tracer analysis, which improves constraints on the RSD and primordial non-Gaussianity, due to a suppression of the cosmic variance on large scales. I'll focus on the multi-tracer analysis between the LRGs and ELGs and discuss the cosmological result.



All are welcome ! Tea, coffee will be served at 2:15 PM.