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国台学术报告 NAOC COLLOQUIUM

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Time: Wednesday 2:30 PM, July 12th **Location: A601 NAOC**

Galaxy Kinematics and Cosmology from Accurately Modeling the Redshift-Space Galaxy Clustering

Prof. Zheng Zheng
University of Utah, US

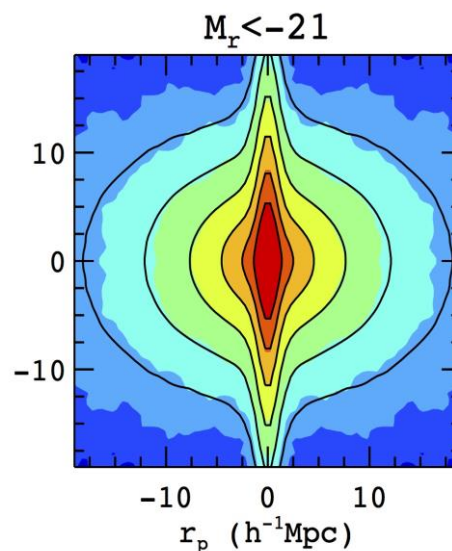


Prof. Zheng Zheng obtained his BS from Peking University, his MS from Beijing Astronomical Observatory (now NAOC), and his PhD from Ohio State University. He was awarded the Hubble Fellowship and John Bahcall Fellowship and conducted postdoctoral research at the Institute for Advanced Study, Princeton. He then moved to Yale Center for Astronomy and Astrophysics as a YCAA Prize Fellow. He joined University of Utah in 2011 as a faculty member. Professor Zheng Zheng's research focuses on large-scale structure and galaxy clustering, galaxy formation and evolution, high-redshift galaxies and reionization, radiative transfer, and cosmology. He also has

broad interests in other fields of astrophysics.

Abstract

With the increasing precision of galaxy clustering measurements from ongoing and forthcoming large galaxy surveys, accurate models are required to interpret the redshift-space data, to extract information on galaxy-halo connection and cosmology, and to produce reliable mock catalogs. I will first present a method based on halos (or subhalos) identified in high-resolution N-body simulations to accurately and efficiently model redshift-space galaxy clustering. I will then talk about the applications of such a method to model the small-to-intermediate scale redshift-space clustering of SDSS and BOSS galaxies and discuss the inferred galaxy-halo relation and galaxy velocity bias. Finally, I will comment on tightening cosmological constraints from small-to-intermediate scale redshift-space clustering.



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