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国台学术报告 NAOC COLLOQUIUM

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Time: Wednesday 2:30 PM, May.16th Location: A601, NAOC

A Magellan M2FS Spectroscopic Survey of Galaxies at $5.5 < z < 6.7$

Prof. Linhua Jiang

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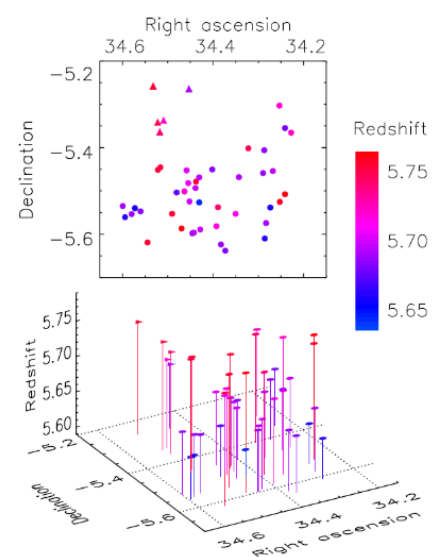


Linhua Jiang is a Youth Qianren Research Professor at the Kavli Institute for Astronomy and Astrophysics, Peking University. He obtained his B.S. and M.S. degrees from Peking University. In 2008 he obtained his Ph.D. degree from University of Arizona. Before he joined Peking University as a faculty member in 2014, he was a Hubble Fellow at Arizona State

University. Professor Jiang has a broad research interests in extragalactic astronomy and observational cosmology, including high-redshift quasars and supermassive black holes, high-redshift galaxies, their physical properties and implications to cosmic reionization.

Abstract

I will present our on-going program that uses Magellan M2FS to spectroscopically identify a large number galaxy candidates at $5.5 < z < 6.7$ over nearly four square degrees on the sky. M2FS is a fiber-fed, multi-object (256 fibers) spectrograph on the Magellan Clay telescope. With a large field of view (0.5 degrees in diameter), it is very efficient to identify relatively bright high-redshift galaxies. We have observed about three square degrees in well-studied deep fields such as COSMOS and SXDS, and have obtained more than 200 luminous Lyman-alpha emitting galaxies at $z = 5.7$ and 6.6 . This is the largest sample of its kind so far. We are using this unique sample to study a variety of galaxy properties and their implications to cosmic reionization.



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