

国台学术报告 NAOC COLLOQUIUM

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TIME: Wednesday, 2:00 PM, Mar. 20, 2013 **LOCATION: A601 NAOC**

The Future of the Sloan Digital Sky Survey



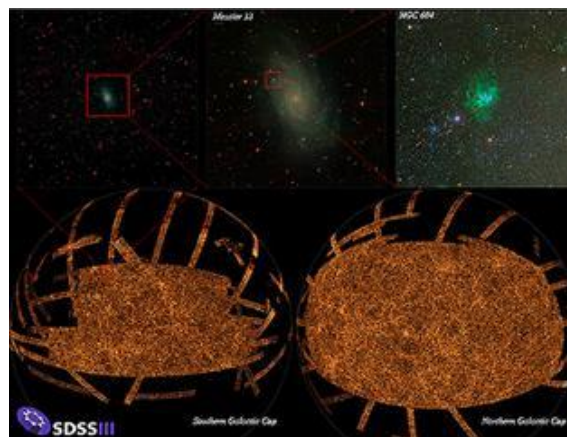
Dr. Michael Blanton (NYU)

I am an Associate Professor of Physics at New York University, working in the field of galaxy evolution and cosmology. I attended graduate school at Princeton University, then worked as a postdoctoral fellow at Fermilab and New York University before becoming a professor. Since 1999, my work has focused mainly on mapping the universe with the Sloan Digital Sky Survey.

Abstract

I describe plans for the next-generation Sloan Digital Sky Survey, to begin in July 2014, and which consists of three programs, APOGEE-2, MaNGA and eBOSS. APOGEE-2 will use both the Sloan Foundation Telescope at Apache Point and the du Pont Telescope at Las Campanas to study Galactic archaeology with high-resolution near-infrared spectroscopy. MaNGA will develop fiber bundle technology

for the BOSS spectrograph to perform multiplexed spatially resolved spectroscopy with an unprecedented combination of wavelength coverage and resolution for 10,000 nearby galaxies. eBOSS will study the Universe's expansion using a massive survey of galaxies and quasars. eBOSS will also perform follow-up spectroscopy on X-ray and variable sources, making it both the largest and most broadly selected quasar survey. I will show how this innovative set of programs will lead to a better understanding of cosmology and galaxy formation, as well as stellar and exoplanetary astronomy.



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

You are welcome to nominate speakers to Weimin Yuan (wmy@nao.cas.cn, Jan-Mar), Mei Zhang (zhangmei@bao.ac.cn, Apr-Jun), Licai Deng (licai@bao.ac.cn, Jul-Sep), Xuelei Chen (xuelei@cosmology.bao.ac.cn, Oct-Dec), Shude Mao (smao@nao.cas.cn)