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# 国台学术报告 NAOC COLLOQUIUM

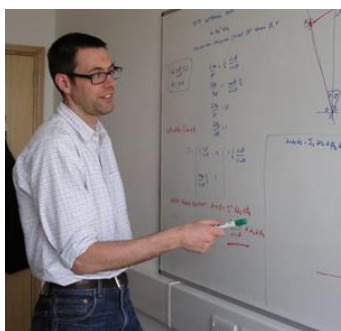
2016 年 第 9 次 / No. 9 2016

**Time: Tues. 2:30 PM, Apr. 12 Location: Multi-Function Hall, NAOC**

## Cosmological Measurements from Galaxy Clustering

**Prof. Will Percival**

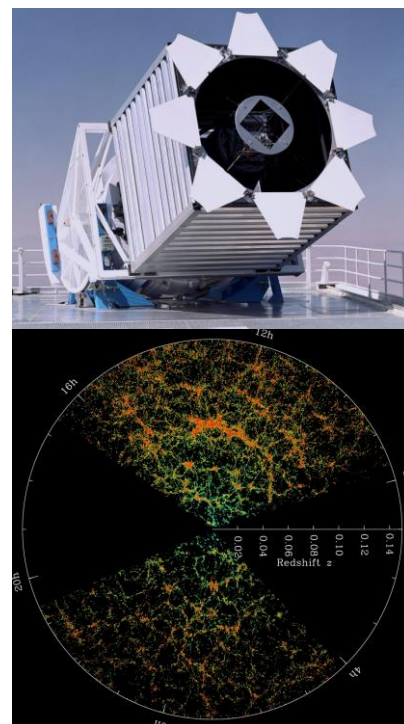
**Institute of Cosmology and Gravitation, University of Portsmouth, UK**



Professor Will Percival is an expert on observational cosmology, having published over 150 research papers and supervised 8 PhD students, with his recent work being focused on extracting cosmological information by analyzing galaxy surveys. Over the last 5 years, he has helped to make the Baryon Oscillation Spectroscopic Survey (BOSS) successful, by measuring and analyzing the cosmological signal. He completed his PhD at the University of Oxford in 1999, worked as a research fellow in Edinburgh until 2005. Then he moved to the Institute of Cosmology and Gravitation at the University of Portsmouth. He was promoted to full professor in 2011. Prof. Percival is current serving as the Survey Scientist for the extended-BOSS (eBOSS) survey, quasar and galaxy clustering science working group lead for the Dark Energy Spectroscopic Instrument (DESI), and is one of four science coordinators for the European Space Agency Euclid satellite mission.

### Abstract

In this talk I will review how galaxy surveys can provide cosmological information, looking towards answering the big question of “What is Dark Energy, the process driving cosmological acceleration?” I will introduce Baryon Acoustic Oscillations (BAO) and Redshift-Space Distortions, two processes by which physics is encoded in the observed pattern of galaxies. I will then present recent measurements from the Baryon Oscillation Spectroscopic Survey (BOSS). I will then look ahead to the ongoing and future galaxy surveys including the extended Baryon Oscillation Spectroscopic Survey (eBOSS), Dark Energy Spectroscopic Instrument (DESI), and the European Space Agency Euclid satellite mission.



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