



# PHYSICS AND ASTRONOMY COLLOQUIUM

## **Dr. Florian Beutler**

Lawrence Berkeley National Laboratory, Physics Division

### **“Cosmology with the Baryon Oscillation Spectroscopic Survey (BOSS)”**

#### Abstract

I will present results from the SDSS-III BOSS-DR11 analysis.

In this talk I will focus on the analysis of the power spectrum multipoles, which allows to constrain the expansion of the Universe through Baryon Acoustic Oscillations as well as to measure the growth of structure through redshift-space distortions. Such a measurement can be used to test General Relativity. Our measurements are in some tension with the expectation of GR+ $\Lambda$ CDM and I will suggest ways in which this tension can be alleviated.

Wednesday, November 11, 2014

3:30 p.m.

Bob Wright Centre

Room A104