

The Particle, Nuclear & Astronomical Sciences Seminars series presents:

Dr. Andreas Berlind

(Center for Cosmology and Particle Physics, New York University)

“From Galaxy Clustering Measurements to Galaxy Formation Physics and Cosmology”

Abstract:

Measurements of the universe on large scales (most notably using Cosmic Microwave Background and supernovae data) have led to a dominant cosmological model (Lambda-CDM) that is highly successful in predicting the large-scale structure of the universe. Much of the focus of testing this model has thus shifted to the small scales of galaxies and clusters of galaxies, where large astronomical surveys have recently produced measurements with unprecedented precision. I will discuss how we can harness the power of these large surveys to learn about cosmology and galaxy formation physics. Along the way, I will present results from galaxy clustering measurements in the Sloan Digital Sky Survey.

Monday, Feb. 26
4:00 P.M.
304 Robeson Hall