



PHYSICS AND ASTRONOMY SEMINAR

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“The Cosmic Peculiar Velocity Field”

Abstract

The peculiar velocity field is one of the important probe of large scale structure. Its prediction from linear perturbation theory of Λ CDM should be rigorous tested against observational data. I will lay out a method which can quantify the difference between the predicted velocity field from the density field and therefore directly test the gravitational instability diagram. By applying the hyper-parameter technique, we quantify the magnitude and direction of the bulk flow on scale of 50 Mpc/h, and test its consistency with LCDM prediction. I will present a method which can maximize the cosmological information one can obtain from the bulk flow study.

Friday, April 26, 2013

11:30 a.m.

Elliott Building

Room 162