
IUCAA 2011

Baryon Acoustic Oscillations

Instructor: Nikhil Padmanabhan
E-Mail: nikhil.padmanabhan@yale.edu

Overview

This is not meant to be a complete bibliography, but a (biased) view of papers that discuss the topics I mentioned in greater detail. These are also the papers that I used the most to prepare my lectures.

A good starting review is :

Eisenstein, New Astronomy Reviews, v. 49, iss. 7-9, 2009

Data

(see the attached list of papers for a current list of data papers; these are only spectroscopic results – there are also results using photometric redshifts)

Two papers on the details of measurements of correlation functions and power spectra are :

1. Hamilton, A.J.S. , Linear Redshift Distortions: a Review
2. Tegmark, M. et al, Astrophysical Journal v.499, p.555, 1998

Nonlinear Evolution

1. Eisenstein, Seo, White, ApJ 2007, 664, 2, 660
2. Carlson, J. et al
3. Padmanabhan, White, PRD, 2009, 80

Reconstruction

1. Eisenstein et al, ApJ, 2007, 664, 2, 675
2. Noh et al, PRD 2009, Issue 12, id. 123501