

# Class Presentation Topics

Presentations are meant to be on a specific topic rather than a specific paper. So you may focus on one paper, but you are expected to give background material and a reasonably comprehensive view of the subject. The Weinberg review article is especially good for this.

This list is not exclusive or exhaustive: if you want to present on another topic, or focus on a different paper than those listed under a given topic, just let me know in advance.

These topics are also first-come-first-serve: all presentations must be on separate topics.

Presentation length will depend on exactly how many people are giving talks, but roughly 15-20 minutes.

## Supernova Cosmology

- <http://adsabs.harvard.edu/abs/2014A%26A...568A..22B>
- Chapter from Weinberg article

## Baryon Acoustic Oscillations:

- <http://adsabs.harvard.edu/abs/2014arXiv1411.1074A>
- <http://adsabs.harvard.edu/abs/2014MNRAS.441...24A>
- Chapter from Weinberg Review Article

## Local Measurements of the Hubble Constant

- <http://adsabs.harvard.edu/abs/2010ARA%26A..48..673F>
- <http://adsabs.harvard.edu/abs/2012ApJ...758...24F>
- <http://adsabs.harvard.edu/abs/2011ApJ...730..119R> (Note errata)

## Cluster Cosmology:

- Chapter from Weinberg
- Optical: <http://adsabs.harvard.edu/abs/2010ApJ...708..645R>
- SZ: <http://adsabs.harvard.edu/abs/2011ApJ...732...44S>
- Both: <http://adsabs.harvard.edu/abs/2013ApJ...767...38S>

## Neutrino Constraints

- LSS: <http://adsabs.harvard.edu/abs/2014MNRAS.444.3501B>
- LSS: <http://adsabs.harvard.edu/abs/2013MNRAS.436.2038Z>
- CMB: <http://adsabs.harvard.edu/abs/2014A%26A...571A..16P>
- combinations: <http://adsabs.harvard.edu/abs/2014PhRvD..90h3503D>
- LyAF - <http://adsabs.harvard.edu/abs/2015JCAP...02..045P>

## Redshift Space Distortions

- <http://adsabs.harvard.edu/abs/2014MNRAS.439.3504S>

- <http://adsabs.harvard.edu/abs/2013MNRAS.429.1514S>
- <http://adsabs.harvard.edu/abs/2014MNRAS.443.1065B>

#### Cosmic shear

- Chapter from Weinberg, references therein

#### Secondary CMB Anisotropies (each bullet is a separate topic)

- CMB Polarization
  - <http://xxx.lanl.gov/abs/astro-ph/0403392>
  - <http://adsabs.harvard.edu/abs/2015PhRvL.114j1301A>
- kSZ:
  - <http://adsabs.harvard.edu/abs/2012PhRvL.109d1101H>
- CMB lensing:
  - <http://adsabs.harvard.edu/abs/2014A%26A...571A..17P>
  - <http://adsabs.harvard.edu/abs/2014JCAP...04..014D>

#### non Gaussianity:

- CMB: <http://adsabs.harvard.edu/abs/2014A%26A...571A..24P>
- LSS: <http://adsabs.harvard.edu/abs/2013MNRAS.428.1116R>
- LSS: <http://adsabs.harvard.edu/abs/2008JCAP...08..031S>

#### Inflation Constraints:

- <http://adsabs.harvard.edu/abs/2014A%26A...571A..22P>

#### Lyman-alpha Forest

- 1D - <http://adsabs.harvard.edu/abs/2015JCAP...02..045P>
- 1D - <http://adsabs.harvard.edu/abs/2013A%26A...559A..85P>
- 3D - <http://adsabs.harvard.edu/abs/2013JCAP...04..026S>
- 3D (cross-correlation) - <http://adsabs.harvard.edu/abs/2014JCAP...05..027F>