

# Bay Area Friends of Cosmology Workshop Programme: Cosmology from Astronomical objects



8:00 - 8:30 Coffee & Bagels

8.30 - 9:30 THEORY: DARK MATTER AND DARK ENERGY

Chung-Pei Ma	Some thoughts on dark matter
Michael Peskin	Precision Supersymmetry and Dark Matter
Andrei Linde	From cosmological constant to dark energy and back
Eric Linder	The Limits of Quintessence
Pisin Chen	A Possible Solution to the Smallness Problem of Dark Energy
10 mins discussion (Andrei Linde)	

9.30 - 9.55 SUPERNOVAE

Masao Sako	The SDSS Supernova Survey
Gerson Goldhaber	CMAGIC, a Novel Approach to Type Ia SNe
5 mins discussion (Masao Sako)	

9:25 - 10:25 Coffee

10:25 - 12:00 LSS, CLUSTERS OF GALAXIES, GROUPS

Brad Hagan	Dark Matter Substructure and the Weak Lensing Power Spectrum
Ruediger Kneissl	SZ cluster surveying/science
Bradford Benson	Measurements of SZ Scaling Relations with SuZIE
Jared Mehl	A Millimeter-wavelength Galaxy Cluster Survey using the Sunyaev-Zel'dovich Effect
Erik Shirokoff	The South Pole Telescope
Steve Allen	Cosmological constraints from the cluster gas fraction
Brian Gerke	Measuring Cosmology with Galaxy Groups in the DEEP2 Redshift Survey
25 mins discussion (Steve Allen)	

12:00 - 13:00 Lunch

13:00 - 14:45 GALAXIES

Juerg Diemand	Finding the building blocks of the stellar halo and satellite galaxies in CDM simulations
Jean Brodie	Near-Field Cosmology with Globular Clusters: Galaxy Assembly and Reionization
Mike Boylan-Kolchin	The Structure of Elliptical Galaxies
Eric Morganson	Shear Anisotropies in Correlation Functions as a Measure of Distance
Marina Shmakova	Sextupole lensing
Jeff Newman	Testing for evolution in the fine structure constant with DEEP2
Roger Blandford	NuSTAR/ESIST and the X-ray background
Bruce Grossan	Preliminary Analysis of Cosmic Far-IR Background Fluctuations in Spitzer 160 Micron Maps
25 mins discussion (Roger Blandford)	

14:45 - 15:25 FIRST THINGS LAST

Michael Kuhlen	The First Miniquasar
Tzu-Ching Chang	Mining the 21cm Forest in the Dark Ages
Anthony Aguirre	Studying the high-z universe using the enrichment of the intergalactic medium
10 mins discussion (Anthony Aguirre)	

15:25 - 15:45 CMB

Gayoung Chon	CMB polarisation data/error analysis
Keith Thompson	QUIET: a new CMB polarization experiment

16.00 - 17.00 CMB

Sarah Church	CMB polarization with QUaD (Applied Physics/Physics Colloquium at Stanford)
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17.30 - 18.30 CONFERENCE SUMMARY/DISCUSSION