W2: Cosmology

Schedule of Talks

Thursday, December 15, 2011

Time	Name of the Speaker	Title				
Topic: Dark matter (30 minutes)						
1400 – 1420	Manoj Kaplinghat	Fermi-LAT constraints on WIMP dark matter				
1420 – 1430	Sukanya Chakrabarty	A new probe of the distribution of dark matter in galaxies				
Topic: Clust	Topic: Cluster of galaxies (50 minutes)					
1430 – 1450	Yen-Ting Lin	A WISE-Chandra view of baryon content evolution in galaxy clusters				
1450 – 1510	Aseem Paranjape	Random walks, moving barriers and the large scale structure				
1510 – 1520	Graziano Rossi	Halo shapes in the cosmic web				
1520 – 1550	Tea/Coffee break					
Topic: Large	e scale structure (50 minutes					
1550 – 1610	Marco Bruni	Relativistic effects and large scale structure: Post- Newtonian dynamics				
1610 – 1620	Felipe Marin	High-order clustering of WiggleZ galaxies				
1620 – 1630	Surhud More	Galaxy-dark matter connection: A cosmological perspective				
1630 – 1640	Charles Jose	Weighing neutrinos using high redshift galaxy luminosity functions				
Topic: Dark	energy (50 minutes)					
1640 – 1700	Filippo Vernizzi	Structure formation with clustering quintessence				
1700 – 1710	Anjan Ananda Sen	Deviation from ACDM: Pressure parametrization				
1710 – 1720	Valeria Pettorino	Interacting dark energy: Impact on CMB and structure formation				
1720 – 1730	Amna Ali	Modified gravity a la Galilean: Late time cosmic acceleration and observational constraints				

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Schedule of Talks

Sunday, December 18, 2011

Time	Name of the Speaker	Title			
Topic: 21-cm cosmology (20 minutes)					
1400 – 1420	Tzu-Ching Chang	21-cm cosmology			
Topic: Grav	Topic: Gravitational lensing (70 minutes)				
1420 – 1440	Sudeep Das	A new view of the cosmic microwave background with ACT			
1440 – 1500	Gil Holder	Gravitational lensing of the CMB and the South Pole Telescope			
1500 – 1520	Tommaso Treu	Cosmology from gravitational time delays			
1520 – 1530	Anupreeta More	The SL2S arcs sample			
1530 – 1600	Tea/Coffee break				
Topic: Cosm	ic microwave and infrared b	packground (90 minutes)			
1600 – 1620	Olivier P. Dore	Planck early measurements of the cosmic infrared background anisotropies			
1620 – 1630	Stephane Ilic	CMB/CIB cross-correlation for ISW detection			
1630 – 1640	Marina Cortes	On the prior dependence of constraints on tensor-to-scalar ratio			
1640 – 1650	Tristan Smith	Constraints on neutrino interaction using cosmological observations			
1650 – 1700	P.S. Saumia	Probing the anisotropic expansion history of the universe with cosmic microwave background			
1700 – 1710	Nidhi Joshi	Statistics of statistical anisotropy measures			
1710 – 1720	Pravabati Chinganbam	Search for non-Gaussianity in the CMB with geometrical and topological quantities			
1720 – 1730	Dmitri Pogosyan	Geometrical statistics of non-Gaussian cosmological fields			

W2: COSMOLOGY

POSTERS (25)

December 16 – 17, 2011

No.	AUTHOR	TITLE	
01	Ujjaini Alam	Non-parametric reconstruction of dark energy equation of state	
		from diverse datasets	
02 Rizwan ul Haq Ansari		Perturbations in dark energy models with evolving speed of	
		sound	
03	Soumen Basak	A needlet ILC analysis of WMAP 7-year temperature data	
04 Ningombam Chandrachani		Evolution of spherical over density in thawing dark energy	
	Devi	models	
05 Santanu Das Leakage of power		Leakage of power from dipole to higher multipoles due to non-	
		circular WMAP beam	
06	Walter Del Pozzo	Precision measurements of the Hubble constant with	
		gravitational waves	
07	Abhik Ghosh	Characterizing the diffuse foregrounds for redshifted 21-cm HI	
		signal: GMRT 150 MHz observation	
08	Tuhin Ghosh	Characterisation of CMB foregrounds	
09	Rituparno Goswami	On the shear-free perturbations of FLRW universe	
10	Tapomoy Guha Sarkar	The cross-correlation of 21-cm signal and the Lyman-alpha	
		forest: A cosmological probe	
11	Deepak Jain	Observational cosmology and the cosmic distance duality	
		relation	
12	Fabien Lacasa	Non-Gaussianity of point-sources foregrounds	
J		Matched filter detection of ionized bubbles in simulated	
		redshifted 21-cm maps of epoch of reionization	
14	Sanjit Mitra	Effect of asymmetric beams in CMB experiments: Importance	
		and remedy	
15	Sourav Mitra	Joint QSO – CMB constraints on reionization history	
16 Sharvari Nadkarni Ghosh Extending the domain of validit		Extending the domain of validity of Lagrangian perturbation	
		theory	
17	Roshina Nandra	The interplay between cosmological expansion and massive	
		objects	
18	Anne Marie Nzioki	A geometrical approach to strong gravitational lensing in f(R)	
		gravity	
19	Isha Pahwa	Higher dimensional cosmological models - An alternative	
		explanation for late time cosmic acceleration	
20	Jayanti Prasad	Cosmological parameter estimation using Particle Swarm	
		Optimization	
21	Prakash Sarkar	The luminosity, colour and morphology dependence of galaxy	
		structures in the Sloan Digital Sky Survey	
22	Arman Shafieloo	The crossing statistic: Dealing with unknown errors in the	
		dispersion of type Ia supernovae	
23	Itzadah Thongkool	How delicate are the f(R) gravity models with disappearing	
		cosmological constant?	
24	Pranjal Trivedi	CMB non-Gaussianity sourced by primordial magnetic fields	

Dark energy versus f(R) theo	ories of modified grav	itv

25 Sanil Unnikrishnan