

## W2: Cosmology

### Schedule of Talks

Thursday, December 15, 2011 : 1400 hrs – 1730 hrs

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: 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	The extreme tail of the non-gaussian mass function
1510 – 1520	Graziano Rossi	Halo shapes in the cosmic web
1520 – 1550	Tea/Coffee break	
Topic: Large 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 $\Lambda$ CDM: 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

## W2: Cosmology

## Schedule of Talks

Sunday, December 18, 2011 : 1500 hrs -1830 hrs

Time	Name of the Speaker	Title
Topic: 21-cm cosmology (20 minutes)		
1500 – 1520	Tzu-Ching Chang	21-cm cosmology
Topic: Gravitational lensing (70 minutes)		
1520 – 1540	Sudeep Das	A new view of the cosmic microwave background with ACT
1540 – 1600	Gil Holder	Gravitational lensing of the CMB and the South Pole Telescope
1600 – 1620	Tommaso Treu	Cosmology from gravitational time delays
1620 – 1630	Anupreeta More	The SL2S arcs sample
1630 – 1700	Tea/Coffee break	
Topic: Cosmic microwave and infrared background (90 minutes)		
1700 – 1720	Olivier P. Dore	Planck early measurements of the cosmic infrared background anisotropies
1720 – 1730	Stephane Ilic	CMB/CIB cross-correlation for ISW detection
1730 – 1740	Marina Cortes	On the prior dependence of constraints on tensor-to-scalar ratio
1740 – 1750	Tristan Smith	Constraints on neutrino interaction using cosmological observations
1750 – 1800	P.S. Saumia	Probing the anisotropic expansion history of the universe with cosmic microwave background
1800 – 1810	Nidhi Joshi	Statistics of statistical anisotropy measures
1810 – 1820	Pravabati Chinganbam	Search for non-Gaussianity in the CMB with geometrical and topological quantities
1820 – 1830	Dmitri Pogosyan	Geometrical statistics of non-Gaussian cosmological fields

**W2: COSMOLOGY**

**POSTERS (26)      December 16 – 17, 2011**

<b>No.</b>	<b>AUTHOR</b>	<b>TITLE</b>
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 Devi	Evolution of spherical over density in thawing dark energy models
05	Santanu Das	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
13	Suman Majumdar	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 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
25	Sanil Unnikrishnan	Dark energy versus $f(R)$ theories of modified gravity
26	Anais Rassat	New Statistical Methods for 3D analysis of cosmological surveys