

Parallel Workshop Session : Cosmology

Venue : Bhaskara 3

Session Chairs : T R Seshadri & Tarun Deep Saini

Day 1: 17/12/2007

14:30 – 15:00	D Narasimha	<i>Strong lensing due to multiple lenses and constraints on density fluctuations (σ_8)</i>
15:00 – 15:30	Jasjeet Bagla	<i>Observing the post reionization universe</i>
	Tea break	
16:00 – 16:15	Kanan Datta	<i>Detecting redshifted 21cm signal from the epoch of reionization</i>
16:15 – 16:30	Saiyad Ali	<i>Foregrounds for redshifted 21 cm studies of reionization : GMRT 153 MHz observations</i>
16:30 – 16:45	S Samui	<i>Probing the star formation history using the luminosity functions</i>
16:45 – 17:00	Arman Shafieloo	<i>Estimation of primordial spectrum with post-WMAP 3 year data</i>
17:00 – 17:15	Rajib Saha	<i>CMB angular power spectrum estimation using linear combination of multi-frequency maps</i>
17:15 – 17:25	Tuhin Ghosh	<i>Model independent foreground analysis from WMAP data</i>
17:25 – 17:35	Pramoda Kumar Samal	<i>Testing isotropy of Cosmic Microwave Background Radiation</i>

Day 2: 18/12/2007

16:00 – 16:30	T Wickramasinghe	<i>Use of Gamma ray bursts for cosmic measurements</i>
16:30 – 16:45	Biswajit Pandey	<i>The luminosity- star formation relation for galaxies in the Sloan Digital Sky Survey Data Release Five (SDSS DR5)</i>
16:45 – 17:00	Jayanti Prasad	<i>Cosmological N-Body simulations : Size Matters</i>
17:00 – 17:10	Jaswant Yadav	<i>Effect of finite number and clustering on the Fractal Dimension</i>
17:10 – 17:20	Girish Kulkarni	<i>Effects of features in power spectrum at non-linear scales</i>
17:20 – 17:30	Nishikant Khandai	<i>Towards optimal N-body codes</i>
17:30 – 17:40	Dinesh Raut	<i>Cosmology using clusters</i>

Day 3: 19/12/2007

14:30 – 14:45	S K Srivastava	<i>An unified picture from modified gravity</i>
14:45 – 15:00	T Singh	<i>Bianchi Type - I, III, V, VI₀ and KS Universes in creation-field cosmology</i>
15:00 – 15:15	V B Johri	<i>Constraining quintessence models by dynamical age of the universe.</i>
15:15 – 15:30	Patrick Das Gupta	<i>Rotating blackholes from first order phase transitions</i>
	Tea break	
16:00 – 16:15	Sanil Unnikrishnan	<i>Perturbations in the scalar field model of dark energy</i>
16:15 – 16:30	H K Jassal	<i>Perturbations in fluid models of dark energy</i>
16:30 – 16:45	Pier Stefano Corasaniti	<i>Non-linear evolution of dark matter and dark energy perturbations</i>
16:45 – 17:00	Subenoy Chakraborty	<i>Matter in the bulk and its consequences on the brane: A possible source of dark energy</i>

Day 4: 20/12/2007

16:00 – 16:30	Sergey Chervon	<i>Exact inflation and cosmological parameters</i>
16:30 – 16:45	Minu Joy	<i>Step in the primordial spectral index n_s: A new feature in the inflationary perturbation spectrum</i>
16:45 – 17:00	Andrew W Beckwith	<i>Penrose model potential, compared with Coleman-Weinberg potential for early universe scalar evolution</i>
17:00 – 17:15	Anirudh Pradhan	<i>Magnetized string cosmological model in cylindrically symmetric inhomogeneous universe with variable cosmological-term Λ</i>
17:15 – 17:25	Akhilesh Nautiyal	<i>Inflation with hot pseudo-Nambu-Goldstone bosons</i>
17:25 – 17:35	Rajeev Kumar Jain	<i>Non-gravitating scalar field in the FRW background</i>
17:35 – 17:45	Sudipta Das	<i>An interacting scalar field and the recent cosmic acceleration</i>