

# *X-ray View of Cosmos*

## Conference on Observational X-ray Astronomy

**Monday**      **23<sup>rd</sup> April 2012**

09:00-09:45      Registration

10:00-10:20      Inaugural address      J. N. Goswami

10:20-10:30      Overview of Astronomy & Astrophysics at PRL      P. Janardhan

**10:30-11:00**      **HIGH TEA**

11:00-11:45      Evolution of X-ray Astronomy      A. R. Rao

11:45-12:15      Stochastically Driven Instability in Accretion Flows      Banibrata  
Mukhopadhyay

12:15-12:45      Physics of multi-species relativistic fluid      Indranil  
Chatopadhyay

12:45-13:15      Nucleosynthesis in the GRB accretion disks      Indrani Banerjee

**13:15-14:15**      **LUNCH**

14:15-15:00      Evolution of Neutron Stars      Dipankar  
Bhattacharya

15:00-15:30      Instability of neutron star matter in high magnetic field      Monika Sinha

15:30-16:00      MHD of accretion columns on Neutron star poles and Cyclotron spectra      Dipanjan Mukherjee

**16:00-16:20**      **TEA**

16:20-16:50      Modeling LMXB X-ray Luminosity Function      Harshal Bhadkamkar

16:50-17:20      Effect of Variability of X ray binaries on X ray Luminosity Functions of our Galaxy      Nazma Islam

17:20-17:50      Flaring and quiescent coronae of RS CVn binaries      Jeewan Pandey

**Evening Snacks**

# *X-ray View of Cosmos*

## Conference on Observational X-ray Astronomy

<b>Tuesday</b>	<b>24th April 2012</b>	
09:30-10:00	Relativistic disk line: a tool to probe the neutron stars	Sudip Bhattacharya
10:00-10:30	The Periodic Bursts From The 11 Hz Pulsar IGR 17498-2446 And Their Variation With Spectral States	Manonita Chakraborty
10:30-10:45	QPO detection and Timing Studies for the fast spinning transient pulsar 4U 0115+634 outburst of 1999 by RXTE Satellite	Moti Ram Dugair
10:45-11:00	Pulse Arrival Time Analysis for determination of orbital parameter of the HMXB 2S1553-54	Nirmal Iyer
<b>11:05-11:25</b>	<b>TEA</b>	
11:25-11:55	Outflows in Viscous Accretion Disks with Shocks	Santabrata Das
11:50-12:20	Comparative Study of Spectral and Timing Properties of Long X-ray Dips Observed Uniquely in GRS 1915+105 and IGR J17091-3624	Mayank Pahari
12:20-12:40	Phase resolved spectroscopy of IGR J17091-3624 'heartbeats' with RXTE and XMM-Newton	Anjali Rao
12:40-12:55	LS 5039: Multi-wavelength perspective of an outflowing source!	Manojendu Choudhury
12:55-13:10	Broadband X-ray emission from 1H0419-577: Complex Absorption or Compton Reflection	Mainpal Rajan
<b>13:15-14:15</b>	<b>LUNCH</b>	
14:15-14:45	Temporal and spectral study of Fermi GRBs using different models and their interpretations	Rupal Basak
14:45-15:15	Hard X-ray Focusing Optics for Astronomical Telescopes	K. P. Singh
15:15-15:45	X-ray polarisation measurement techniques, and prospects in near future	B. Paul
<b>15:45-16:05</b>	<b>TEA</b>	
16:05-17:00	Scientific proposal writing	Gulab C. Dewangan
17:00-17:30	Simulations for observational proposals	Santosh Vadawale
<b>17:30-18:00</b>	<b>Evening Snacks</b>	
18:00-19:00	Evening Lecture: DOS proposals for Planetary, Space and Astronomy projects during next plan period	J. N. Goswami
<b>19:30-21:00</b>	<b>Director's Dinner</b>	<b>PRL Nursery</b>

# *X-ray View of Cosmos*

## Conference on Observational X-ray Astronomy

<b>Wednesday</b>	<b>25th April 2012</b>	
09:30-10:15	X-rays from Magnetic Cataclysmic Variables	K. P. Singh
10:15-10:35	Strongly Magnetized Super-Chandrasekhar White Dwarf as Progenitor of Type Ia Supernovae	Upasana Das
10:35-11:05	X-ray and radio study of the clusters of galaxies with different merging environments	Kiran Lakhchaura
<b>11:05-11:25</b>	<b>TEA</b>	
11:25-11:50	The study of warm absorbers, a probe to the central regions of AGN	Sibashish Laha
11:50-12:15	X-ray Bright Optically Dull AGN's In CFHTLS field	Mahadev Pangde
12:15-12:40	Understanding Blazar flares	Sunder Sahayanathan
12:40-13:05	The uncorrelated long term Gamma-ray and X-ray variability of blazars and its implications on disk-jet coupling	Debbijoy Bhattacharya
13:05-13:20	Blazars' activity in high energies	Sunil Chandra
<b>13:20-14:20</b>	<b>LUNCH</b>	
14:20-14:50	The kilo-second variability of X-ray sources in nearby galaxies	Soma Mandal
14:50-15:20	X-ray and Optical studies of Ultra-luminous X-ray sources in nearby elliptical galaxies	V. Jithesh
15:20-15:30		Closing Remarks
<b>15:30-16:00</b>	<b>TEA</b>	
<b>16:00-17:00</b>	<b>PRL Colloquium: Black holes in the universe- an X-ray view</b>	<b>A. R. Rao</b>