

Gamma-ray Bursts : Prompt to Afterglow

The National Centre for Radio Astrophysics (NCRA-TIFR)

**Tata Institute of Fundamental Research
Pune, India**

July 4-7, 2017

Venue: NCRA Auditorium

Duration of the talk includes 5 minutes for discussion

All the meals will be provided starting dinner on 3rd July upto breakfast on 8th July.

Day 1	July 4, 2017 (Tuesday)
08:30-09:30	Breakfast and registration
09:30-10:00	<i>Inauguration, welcome speech by Director</i>
	<i>I - GRB Prompt Emission Chair: Pawan Kumar</i>
10:00 – 11:00	<i>Jonathan Granot: The Physics of GRB prompt emission</i>
11:00-11:30	Tea
11:30 - 12:30	<i>Dipankar Bhattacharya: Hard X-ray polarisation in GRBs</i>
12:30-13:00	<i>Rupal Basak : Multi-wavelength study of GRB spectral evolution (Skype)</i>
13:00 - 14:30	Lunch
	<i>II- GRB Prompt Emission Chair: A.R.Rao</i>
14:30 – 15:30	<i>Jonathan Granot : Prompt emission: Fermi and Swift spectral data</i>
15:30 - 16:00	<i>Vikas Chand : Deciphering the GRBs with spectral, timing and polarization measurements</i>
16:00 - 16:30	Tea
	<i>III - GRBs as tools Chair: A. R. Rao</i>
16:30 - 17:00	<i>Patrick Dasgupta: On the possible common progenitor for FRBs and long GRBs</i>
17:00-17:30	<i>Shashikant Gupta : Cosmology with long GRBs: non-Gaussian features in the data.</i>
17:30-18:00	<i>Shantanu Desai : Testing GR from line-of sight Shapiro delay using multi-messenger signals from GRBs</i>
19:30-20:30	Dinner

Day 2	July 5, 2017 (Wednesday)
08:30 - 09:30	Breakfast
	<i>IV - Afterglow (09:30 – 11:00) Chair: Shashi Bhushan</i>
09:30 – 10:30	<i>Pawan Kumar: The Physics of GRB afterglow emission</i>
10:30 - 11:00	<i>Dipankar Bhattacharya - Hard energy electron distribution in GRB afterglows</i>
11:00 - 11:30	Tea
	<i>V - Understanding the afterglows (11:30 – 13:00) Chair: Shashi Bhushan</i>
11:30 – 12:00	<i>Resmi Lekshmi: Forward shock, Reverse shock and multi waveband modelling (Skype)</i>
12:00 - 12:30	<i>Poonam Chandra : Low frequency afterglows of GRBs</i>
12:30 - 13:00	<i>Kuntal Misra : Optical afterglows of GRBs</i>
13:00 - 14:30	Lunch
	<i>VI - X-ray Observations (14:30 – 15:30) Chair: Kuntal</i>
14:30 – 14:50	<i>A.R. Rao: AstroSat CZT Imager instrument as a GRB Monitor</i>
14:50 - 15:10	<i>Vidushi Sharma : CZTI observations of GRBs</i>
15:10 - 15:30	<i>Debdutta Paul : Luminosity function of long Gamma Ray Bursts</i>
15:30 - 16:00	Tea
16:00 – 17:00	<i>Pawan Kumar: NCRA Seminar: Exploring the progenitors of long GRBs</i>
19:00-20:30	Workshop Dinner

Day 3	July 6, 2017 (Thursday)
07:00-09:00	TRAVEL TO GMRT
09:00-10:00	Breakfast
10:00-11:30	<i>Visit to GMRT</i>
	VII – Observations- Optical Afterglow Chair: Dipankar
11:30 – 12:15	<i>Shashi Bhushan Pandey : Study of gamma-ray bursts with the 3.6m Devasthal Optical Telescope.</i>
12:15 - 13:00	<i>Varun Bhalerao: Rapid follow up of high energy transients</i>
13:00 - 14:30	Group photo and Lunch
	VIII – GMRT and radio afterglow data analysis Chair: Poonam
14:30 – 15:15	<i>Yashwant Gupta: Overview of GMRT</i>
15:15 – 15:45	<i>Sanjay Kudale: GMRT pipeline for transient data analysis</i>
15:45 – 16:15	Tea
16:15-18:30	Travel back to Pune
19:30-20:30	Dinner

Day 4	July 7, 2017 (Friday)
05:45-09:00	<i>Morning Trek to Sinhagad</i>
8:30-10:00	<i>Breakfast</i>
	<i>IX – AstroSat : CZT Imager Chair: : Varun</i>
10:30 - 11:00	<i>S.V. Vadawale: Polarisation measurements using AstroSat CZTI (Skype)</i>
11:00 -11:15	<i>Aarthy Essakiappan : GRB Polarization using CZTI</i>
11:15 - 11:45	<i>Tea</i>
11:45 - 12:15	<i>Tanmoy Chattopadhyay: Measurements of GRB prompt emission polarization with AstroSat-CZTI (Skype)</i>
12:15 - 12:30	<i>Ajay Vibhute : Machine learning technique to search GRB in Astrosat CZTI</i>
12:30 - 12:45	<i>Sujay Mate : Mass Model of AstroSat and Transient Detection with CZTI</i>
12:45 - 14:00	<i>Lunch</i>
14:00 - 15:30	<i>Panel Discussion (Jonathan, Pawan, Rao, Dipankar, Poonam)</i>
15:30 – 16:00	<i>Tea</i>
16:00	<i>Workshop Ends</i>