

Programme for NCRA Academic Days 2024

Day 1, 12 February 2024, Monday

| Time | Name | Title |
|-------|------------------------------------|---|
| | <i>Chair: Preeti Kharb</i> | |
| 9:30 | Yogesh Maan | Interconnections between Magnetars, FRBs and Pulsars |
| 9:50 | Banshi Lal | Magnetars as FRB Sources: A Case Study of XTE J1810-197 |
| 10:10 | Yash Bhusare | R117: Bursting through the noise |
| 10:30 | Ajay Kumar | Hyperactive Repeater FRB20220912A: Monitoring Burst Activity Rate |
| 10:50 | Visweshwar Ram Marthi | Does the magnetar XTE J1810-197 scintillate at low frequencies? |
| | Tea Break: 11:10 - 11:40 am | |
| | <i>Chair: Janakee Raste</i> | |
| 11:40 | Yogesh Wadadekar | Galaxy formation turned upside down by JWST |
| 12:00 | Rashi Jain | Discovery of a massive, huge spiral galaxy at high redshift with JWST? |
| 12:20 | B C Joshi | TBA |
| 12:40 | Sanna Gulati | Origin of high energy emissions in misaligned quasars |
| 1:00 | Ishwara Chandra | Search for new relic sources |
| | Lunch Break: 1:20 - 2:20 pm | |
| | <i>Chair: Sanna Gulati</i> | |
| 2:20 | Bhaswati Bhattacharyya | Navigating millisecond pulsars through wide-band observations |
| 2:40 | Rahul Sharan | Monitoring in-band spectra for millisecond pulsars discovered by uGMRT |
| 3:00 | Sangita Kumari | Unveiling eclipsing spider MSPs through broadband polar observations |
| 3:20 | Sanjay Kudale | In-field phasing for the GMRT and applications to pulsar studies |
| 3:40 | Jitendra Salal | Identifying pulsar candidates in interferometric radio images using scintillation |

| Time | Name | Title |
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| | Tea Break: 4:00 - 4:30 pm | |
| | <i>Chair: Yogesh Maan</i> | |
| 4:30 | Tirthankar Roy Choudhury | Machine Learning Emulators for Reionization Simulations |
| 4:50 | Anirban Chakraborty | Modelling the properties of star-forming galaxies in the Epoch of Reionization |
| 5:10 | Janakee Raste | Heating/Cooling of the IGM with Lyman- α photons during the Cosmic Dawn |
| 5:30 | Divesh Jain | Probing Reionization with kSZ Power Spectrum from Current and Upcoming CMB Surveys |
| 5:50 | Akanksha Kapahtia | Simulating the epoch of helium Reionization |
| | Day-1 meeting ends | |

Day 2, 13 February 2024, Tuesday

| Time | Name | Title |
|-------|-------------------------------------|---|
| | <i>Chair: Visweshwar Ram Marthi</i> | |
| 9:30 | Divya Oberoi | Understanding Gyrosynchrotron Emission from Coronal Mass Ejections |
| 9:50 | Puja Majee | First Detailed Polarimetric Study of a Type II Solar Radio Burst with Murchison Widefield Array |
| 10:10 | Soham Dey | First robust detection of linear polarization from solar radio bursts |
| 10:30 | Jayanta Roy | SPOTLIGHT: updates and plans |
| 10:50 | Ujjwal Panda | Real-time injection and optimal classification of FRBs for the SPOTLIGHT project |
| | Tea Break: 11:10 - 11:40 am | |
| | <i>Chair: Saili Dutta</i> | |
| 11:40 | Ruta Kale | A uGMRT view of the Saraswati Supercluster |
| 12:00 | Ramananda Santra | Abell 2163: The treasure trove of ICM plasma physics |

| Time | Name | Title |
|-------|------------------------------------|--|
| 12:20 | Sameer Salunkhe | Discovery of a radio megahalo in the cluster PLCKG287.0+32.9 |
| 12:40 | Anjan Sarkar | Probing EoR through HI-ksz Cross correlations |
| 1:00 | Siddhartha Bhattacharyya | FRB180916B: Probing Propagation and Emission Imprints on Burst Morphology |
| | Lunch Break: 1:20 - 2:20 pm | |
| | <i>Chair: Sameer Salunkhe</i> | |
| 2:20 | Dharam Vir Lal | Exploring the deep GHz universe using MeerKAT and the upgraded GMRT |
| 2:40 | Shyam Sunder | Investigating Off-Pulse Emission from Pulsars |
| 3:00 | Jyotirmoy Das | Globular Clusters GMRT pulsar search (GCGPS): Discovery and timings |
| 3:20 | Janhavi Baghel | The Polarization angle on the Blazar Envelope |
| 3:40 | Ankita Ghosh | Orbital dynamics and polarisation modulation near eclipse in spider MSP J1242-4712 |
| | Tea Break: 4:00 - 4:30 pm | |
| | <i>Chair: Dharam Vir Lal</i> | |
| 4:30 | Subhashis Roy | Radio-FIR correlation towards our Galactic centre |
| 4:50 | Arpan Pal | Is the toothbrush polarized? |
| 5:10 | Salmoli Ghosh | Examining Magnetic Field Structures in and around Seyfert Lobes |
| 5:30 | Preeti Kharb | A universality of relativistic jets in AGN |
| | Meeting Ends | |