

# **The Metre Wavelength Sky - II**

**Monday, 18 March 2019 - Friday, 22 March 2019**

**NCRA-TIFR, Pune**  
**Programme**

**Monday 18 March 2019****Breakfast - NCRA Lawns (08:00-08:45)****Registration (08:00-08:45)****Inauguration - Chandrasekhar Auditorium (08:45-09:00)**

time	title	presenter
08:45	Opening remarks	GUPTA, Yashwant

**The ISM of the Milky Way and Nearby Galaxies - Chandrasekhar Auditorium (09:00-10:30)****-Conveners: Amy Kimball**

time	title	presenter
09:00	HI 21cm studies of nearby dwarf galaxies	CHENGALUR, Jayaram
09:25	Mass models of gas-rich void dwarf galaxies	KURAPATI, Sushma
09:45	Diffuse neutral ISM: temperature and turbulence from 21 cm absorption studies	ROY, Nirupam
10:10	Structure and Dynamics of the Neutral Hydrogen in the Interstellar Medium	DUTTA, Prasun

**Tea break - Chandrasekhar Auditorium (10:30-10:55)****Algorithms and Techniques - Chandrasekhar Auditorium (10:55-12:40)****-Conveners: Amy Kimball**

time	title	presenter
10:55	Wide-field imaging and calibration issues	MITCHELL, Daniel
11:20	Wide-band Mosaic Imaging: The present and the future	BHATNAGAR, Sanjay
11:40	Full Mueller AW-Projection : A generalized direction dependent imaging framework	JAGANNATHAN, Preshanth
12:00	Low Frequency Polarimetry with the Very Large Array	PERLEY, Richard
12:20	LOFAR2.0 - A premier low-frequency array for the 2020's	HESELS, Jason

**Stars and Exoplanets - Chandrasekhar Auditorium (12:40-13:00)****-Conveners: Amy Kimball**

time	title	presenter
12:40	In Search of Galactic Center Millisecond Pulsars from Steep-Spectrum, Compact Radio Sources	KASSIM, Namir (Presented by Joseph Lazio)

**Lunch break - NCRA Lawns (13:00-14:00)****Stars and Exoplanets - Chandrasekhar Auditorium (14:00-14:45)****-Conveners: K Dwarakanath**

time	title	presenter
14:00	Magnetic Fields of Extrasolar Planets: Planetary Interiors and Habitability	LAZIO, Joseph
14:25	Probing the magnetosphere of hot magnetic stars with the uGMRT	DAS, Barnali

**Fast Radio Bursts and Transients - Chandrasekhar Auditorium (14:45-15:55)****-Conveners: K Dwarakanath**

time	title	presenter
14:45	ASKAP Fast Radio Bursts	BHANDARI, Shivani
15:10	Fast Radio Bursts at Metre Wavelengths	MACQUART, Jean-Pierre
15:35	Fast Radio Bursts with the GMRT: Results, new developments	ROY, Jayanta

**Tea break - Chandrasekhar Auditorium (15:55-16:30)****Fast Radio Bursts and Transients - Chandrasekhar Auditorium (16:30-17:55)****-Conveners: K Dwarakanath**

time	title	presenter
16:30	The transient radio sky from CHIME/FRB	TENDULKAR, Shriharsh
16:55	Metre-wave snapshot spectroscopic imaging studies of weak solar bursts: New insights	MOHAN, Atul

17:15	GMRT view of the first binary neutron star merger GW 170817/GRB 170817A	LEKSHMI, Resmi
17:35	A case study of GW 170817: Connection between binary neutron star mergers and short gamma ray bursts revealed through radio observations	CHANDRA, Poonam

**Snacks and poster viewing - NCRA Lawns (17:55-19:00)**

**Dinner - NCRA Lawns (20:00-21:00)**

**Tuesday 19 March 2019****Breakfast - NCRA Lawns (08:00-09:00)****Pulsar Studies - Chandrasekhar Auditorium (09:00-10:45)****-Conveners: Francesco de Gasperin**

time	title	presenter
09:00	The European Pulsar Timing Array	BURGAY, Marta
09:25	Probing pulsar scattering properties with the MWA	KIRSTEN, Franz
09:45	The search and detection new pulsars at 111 MHz	MALOFEEV, Valery
10:05	uGMRT timing of the eccentric binary millisecond pulsar NGC 1851A	RIDOLFI, Alessandro
10:25	The impact of Solar-wind models in pulsar timing	TIBURZI, Caterina

**Tea Break - Chandrasekhar Auditorium (10:45-11:10)****Pulsar Studies - Chandrasekhar Auditorium (11:10-13:00)****-Conveners: Francesco de Gasperin**

time	title	presenter
11:10	Pulsar surveys with the upgraded GMRT	BHATTACHARYYA, Bhaswati
11:35	Expected imprints of the carousel in multi-frequency pulsar observations	MAAN, Yogesh
11:55	Overview of the CHIME/Pulsar system.	NAIDU, Arun
12:15	Pulsar Glitches to Probe Neutron Star Interior	BASU, Avishek
12:35	Probing gravity in the strong-field regime	ARCHIBALD, Anne (Presented by Jason Hessels)

**Lunch break - NCRA Lawns (13:00-14:00)****Pulsar Studies - Chandrasekhar Auditorium (14:30-15:35)****-Conveners: Mousumi Das**

time	title	presenter
14:30	Scintillometry	PEN, Ue-Li
14:55	Pulsar emission region holography with plasma lensing	LI, Dongzi
15:15	Harnessing the Wideband Potential of uGMRT for Interstellar Scintillation Studies	MARTHI, Visweshwar Ram

**Tea break - Chandrasekhar Auditorium (15:35-16:05)****Deep Fields and Surveys - Chandrasekhar Auditorium (16:05-17:55)****-Conveners: Mousumi Das**

time	title	presenter
16:05	Galactic and Extragalactic All-sky MWA survey: GLEAM and beyond	HURLEY-WALKER, Natasha
16:30	The Very Large Array Sky Survey (VLASS)	KIMBALL, Amy
16:50	Deep uGMRT Band-3 observations of XMMLSS region	CH, Ishwara Chandra
17:10	SUPERMIGHTEE: Joint Exploration of the Deep Sky with uGMRT and MeerKAT	TAYLOR, Russ
17:30	The LOFAR Two-metre Sky Survey	SHIMWELL, Timothy

**Snacks and poster viewing - NCRA Lawns (17:55-19:00)****Public Lecture - Chandrasekhar Auditorium (19:00-20:00)**

time	title	presenter
19:00	The Square Kilometre Array: An Astronomer's Dream Science Machine	DIAMOND, Philip

**Dinner - NCRA Lawns (20:00-21:00)**

**Wednesday 20 March 2019****Breakfast - NCRA Lawns (08:00-09:00)****High-redshift HI 21cm studies - Chandrasekhar Auditorium (09:00-10:55)****-Conveners: Alan Lecavelier**

time	title	presenter
09:00	CHILES; the COSMOS HI Extragalactic Survey	VAN GORKOM, Jacqueline
09:25	The GMRT HI 21cm survey of the Extended Groth Strip	BERA, Apurba
09:50	The Neutral Hydrogen Content of Galaxies at $z \sim 0.75 - 1.45$	CHOWDHURY, Aditya
10:10	Tracing HI in radio AGN: associated absorption from low to high redshifts	MORGANTI, Raffaella
10:35	HI in intermediate and high-redshift radio AGNs	MURTHY, Suma

**Tea break - Chandrasekhar Auditorium (10:55-11:20)****High-redshift HI 21cm studies - Chandrasekhar Auditorium (11:20-12:25)****-Conveners: Alain Lecavelier**

time	title	presenter
11:20	uGMRT and MeerKAT absorption line surveys	GUPTA, Neeraj
11:45	HI absorbers at intermediate redshifts	JNHS, Aditya
12:05	First results from Apertif	VERHEIJEN, Marc

**The Epoch of Reionization - Chandrasekhar Auditorium (12:25-12:50)****-Conveners: Alain Lecavelier**

time	title	presenter
12:25	The LOFAR Epoch of Reionization Key Science Project	KOOPMANS, Léon

**Lunch break - NCRA Lawns (12:50-14:00)****The Epoch of Reionization - Chandrasekhar Auditorium (14:00-15:50)****-Conveners: Preeti Kharb**

time	title	presenter
14:00	The EDGES result: Absorption of the CMB by the 21-cm hydrogen line at redshift 17 - An update and future plans	ROGERS, Alan E.
14:25	SARAS-II results	SINGH, Saurabh
14:50	On detecting HI 21-cm signal from drift scan observations	PATWA, Akash Kumar
15:10	Application of Gaussian Process Regression Analysis on commissioning HERA-47 Array: Foreground modelling and removal	GHOSH, Abhik
15:30	Study of Low Frequency Radio Foregrounds using uGMRT - Applications to Cosmological HI signal extraction	DATTA, Abhirup

**Tea break - Chandrasekhar Auditorium (15:50-16:15)****Non-thermal radio emission - Chandrasekhar Auditorium (16:15-18:00)****-Conveners: Preeti Kharb**

time	title	presenter
16:15	Cosmic-ray astronomy with low-frequency radio instruments	BRAY, Justin
16:40	Evidence for cosmic ray driven galactic winds	DETTMAR, Ralf-Juergen
17:00	The Interaction of Cosmic Rays with Molecular Clouds in the Galactic Center Region	YUSEF-ZADEH, Farhad
17:20	The Extended Radio Emission around Isolated Galaxies in Voids	DAS, Mousumi
17:40	Low Radio Frequency Spatially Resolved Studies of Nearby Galaxies: Magnetic Field	MANNA, Souvik

**Snacks and poster viewing - NCRA Lawns (18:00-19:00)****Dinner - NCRA Lawns (20:00-21:00)**

## Thursday 21 March 2019

**Tea break - Chandrasekhar Auditorium (15:30-16:00)**

**The Low-Frequency Radio Sky - Chandrasekhar Auditorium (16:00-17:30)**

**-Conveners: Jacqueline van Gorkom**

time	title	presenter
16:00	Low Frequency Science and Techniques	EKERS, Ron
16:30	Early History of the VLA - Design, Construction, Commissioning	CLARK, Barry
17:00	The upgraded Giant Metrewave Radio Telescope	GUPTA, Yashwant

**High tea - Chandrasekhar Auditorium (17:30-18:00)**

**Special Event "Govind Swarup @ 90 : Celebrating Radio Astronomy in TIFR" - Chandrasekhar Auditorium (18:00-20:15)**

**Conference Dinner - NCRA Lawns (20:15-22:00)**

**Friday 22 March 2019****Breakfast - NCRA Lawns (08:00-09:00)****Active Galactic Nuclei - Chandrasekhar Auditorium (09:00-10:45)****-Conveners: Poonam Chandra**

time	title	presenter
09:00	The physics and impact of radio galaxy populations	CROSTON, Judith
09:25	Signatures of AGN Feedback at $z \sim 0$ ?	SHASTRI, Prajval
09:45	Remnant radio galaxies in the LOFAR Two-metre Sky Survey	BRIENZA, Marisa
10:05	Restarting phase of the life-cycle of radio galaxies	JURLIN, Nika
10:25	GMRT Discovers the Largest Radio Loud Galaxy/Quasar in the Distant Universe	BAGCHI, Joydeep

**Tea break - Chandrasekhar Auditorium (10:45-11:10)****Active Galactic Nuclei - Chandrasekhar Auditorium (11:10-13:10)****-Conveners: Poonam Chandra**

time	title	presenter
11:10	About Radio Outflows in Radio-Quiet AGN	KHARB, Preeti
11:30	GMRT low-frequency study of recently identified DDRGs :	NANDI, Sumana
11:50	Study of Heavily Obscured and Luminous Quasars with Young Radio Jets at Redshifts, $z \sim 2$	PATIL, Pallavi
12:10	Radio spectral ageing in powerful radio galaxies	MAHATMA, Vijay
12:30	The Complete Local-volume Groups Sample: The AGN feedback cycle in nearby galaxy groups	O'SULLIVAN, Ewan
12:50	A tale of a bent, head-tail radio galaxy	LAL, Dharam

**Lunch break - NCRA Lawns (13:10-14:15)****Clusters, Relics, and Halos - Chandrasekhar Auditorium (14:15-16:00)****-Conveners: Marc Verheijen**

time	title	presenter
14:15	Insight and perspectives in the study of radio emission in galaxy clusters	VENTURI, Tiziana
14:40	Surveys at ultra-low frequencies: a first look at cosmic rays fate in galaxy clusters	DE GASPERIN, Francesco
15:00	Searching for Ultra Steep Spectrum Radio Halos with the uGMRT and LOFAR	CUCITI, Virginia
15:20	Diffuse Radio Emission in ACTPol Clusters	SIKHOSANA, Sinenhlhla Precious
15:40	The Corona Borealis supercluster as seen by LOFAR	DRABENT, Alexander

**Tea break - Chandrasekhar Auditorium (16:00-16:30)****Clusters, Relics, and Halos - Chandrasekhar Auditorium (16:30-17:55)****-Conveners: Marc Verheijen**

time	title	presenter
16:30	A closer look at particle acceleration in galaxy clusters with the Upgraded GMRT	KALE, Ruta
16:55	Diffuse Radio Emission in 'off-state' galaxy clusters.	DWARAKANATH, K
17:15	Exploring particle (re-)acceleration at low frequencies in merging galaxy clusters	DI GENNARO, Gabriella
17:35	Insights into cosmic magnetic fields from radio relic observations at metre wavelengths	HOEFT, Matthias

**Snacks and poster viewing - NCRA Lawns (17:55-19:00)****Dinner - NCRA Lawns (20:00-21:00)**