

Day One (Wednesday 13 December)

08:00 Registration

SESSION 1 Telescope Status and Updates

Session Chair: Shari Breen

08:40	Tara Murphy	Welcome
08:45	Randall Wayth	Murchison Widefield Array: Status and plans
09:00	Carole Jackson	Towards LOFAR 2.0
09:15	Gregg Hallinan	The OVRO-LWA: Status and Early Science
09:30	Nithyanandan Thyagarajan	The efficient E-field Parallel Imaging Correlator (EPIC) and first deployment on LWA-Sevilleta station
9:45	Philip Liju	Searching for cosmic dawn from the sub-Antarctic
10:00	Yashwant Gupta	The uGMRT: Opening new windows to the low frequency radio Universe

10:15 Morning Tea

Session Chair: Gulay Gurkan Uygun

10:45	Cynthia Chiang	The Hydrogen Intensity and Real-time Analysis eXperiment
11:00	Aaron Ewall-Wice	Extending the Frequency Coverage of HERA for High-Redshift Intergalactic Medium Heating Studies
11:15	Marcin Sokolowski	Engineering Development Array: A low frequency radio telescope utilising SKA precursor technology

SESSION 2 Radio Galaxies, Clusters and Galactic Science

11:30	Tessa Vernstrom (Inv)	Cosmic Magnetism at Low Frequencies and Large Scales
12:00	Sparkler Talks	15 x 1 minute

12:15 Lunch

Session Chair: Joe Callingham

13:15	Marijke Haverkorn	From Rorschach to Reality: on the interpretation of Faraday cubes of diffuse Galactic synchrotron emissio
13:30	Vibor Jelic	Faraday tomography of the local ISM with LOFAR
13:45	Irene Polderman	Cosmic Ray Tomography of the Milky Way using Synchrotron Emission
14:00	Emil Lenc	The First All-Sky Blind Survey in Circular Polarisation
14:15	Christopher Riseley	POGS: POLarization from the GLEAM Survey
14:30	Chenoa Tremblay	Studying Astrochemistry at Low Frequencies with the MWA

14:45 Afternoon Tea

Session Chair: Tessa Vernstrom

15:15	Elaine Sadler (Inv)	Radio AGN populations and their cosmic evolution
15:45	James Allison	Searching for young radio galaxies in the early Universe
16:00	Joseph Callingham	Why are there so many peaked-spectrum sources in the Universe?
16:15	Guillaume Drouart	The GLEAMing of Supermassive Black Holes in the Early Universe
16:30	Marisa Brienza	Searching for remnant radio galaxies in the LOFAR Lockman Hole
16:45	Pedro Salas	Low frequency radio recombination lines from Cassiopeia A
17:00	J. B. Raymond Oonk	The Cygnus X region in unprecedented detail at the lowest frequencies
17:15	Andra Stroe	Giant cosmic tsunamis: reconciling observations and models of cluster radio relics

17:30 Close

Day Two (Thursday 14 December)

08:00 Registration

SESSION 3 Cosmic Dawn and EoR

Session Chair: James Allison

08:45	Gianni Bernardi (Inv)	The Hydrogen Epoch of Reionization Array (HERA)
09:15	Carina Cheng	21cm Power Spectrum Lessons: Updated Results from the PAPER Experiment
09:30	Nichole Barry	A New EoR Limit from the US MWA Pipeline
09:45	Visweshwar Ram Marthi	Forecasts for $z=3.35$ intensity mapping with the Ooty Wide Field Array
10:00	Michael Eastwood	Full-Sky Maps of the VHF Radio Sky with the Owens Valley Long Wavelength Array
10:15	Cathryn Trott	Building models for extended radio sources: implications for Epoch of Reionisation science

10:30 Morning Tea

Session Chair: Charlotte Sobey

11:00	Laura Wolz (Inv)	An overview on HI intensity mapping
11:30	Adrian Liu	Machine Learning for Foreground Modeling and Signal Extraction in 21cm Cosmology
11:45	Adam Beardsley	Constraining local reionization histories with 21 cm observations
12:00	Raul Monsalve	Recent Progress by the EDGES Global 21-cm Experiment
12:15	Bradley Greig	Simultaneously constraining the astrophysics of reionisation and the epoch of heating with 21CMMC
12:30	Ridhima Nunhokee	PAPER's last observing season: all-sky images and foregrounds

12:45 Lunch

Session Chair: Paul Hancock

13:45	Jonathan Pober	Cross-Pollination Between 21 cm EoR Experiments
14:00	Kenji Kubota	Detectability of 21cm-signal during the Epoch of Reionization with 21cm-LAE cross-correlation
14:15	Miguel Morales	Building Confidence in EoR Limits

SESSION 4 Surveys and techniques

14:30	George Heald (Inv)	Low-frequency surveys in total intensity and polarization
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15:00 Afternoon Tea

Session Chair: Ben McKinley

15:30	Andre Offringa (Inv)	Improving low-frequency imaging and calibration: constraints and image-domain gridding
16:00	Huib Intema	Scientific exploration of TGSS
16:15	Ronniy Joseph	Redundant Calibration - Breaking the constraints of limited sky knowledge
16:30	Yoshimitsu Miyashita	Application of sparse reconstruction to cosmic magnetism study at low frequencies
16:45	Etienne Bonnassieux	On the variance of radio interferometric calibration solutions : Quality-based Weighting Schemes
17:00	Luke Pratley	Sparse image reconstruction of radio interferometric observations using PURIFY
17:15	Gregg Hallinan	Special Talk: The Radio Afterglow of GW170817

17:30 **Close**

Day Three (Friday 15 December)

08:00 Registration

SESSION 5 Transients and Pulsars

Session Chair: Steve Croft

08:45 Kevin Stovall (Inv) The Green Bank North Celestial Cap Pulsar Survey

09:15 Ramesh Bhat Pulsar Science and Survey plans with the Murchison Widefield Array

09:30 Ben Stappers Searching for Pulsars with LOFAR

09:45 Ryan Monroe Pulsar beam holography with the Owen's Valley Long Wavelength Array

10:00 Stefan Osłowski LOFAR observations of turbulent ionised interstellar medium towards PSR J1509+5531

10:15 Mengyao Xue Low-frequency pulsar polarimetry across the MWA band

10:30 Morning tea

Session Chair: Maria Rioja

11:00 Christene Lynch Chasing Low Frequency Radio Bursts from Magnetically Active Stars

11:15 Marin Anderson Probing the low frequency transient sky with the OVRO-LWA

11:30 Jake Turner The search for radio emission from exoplanets using LOFAR low-frequency beam-formed observations

11:45 David Gardenier The Fast Radio Burst Population

12:00 Paul Hancock Near-field Transients: Tracking satellites and space debris with the MWA

12:15 Charlotte Sobey Low-frequency polarisation observations of pulsars to probe the 3-D structure of the Galactic magnetic field

12:30 Lunch

SESSION 6 Solar System, Ionosphere, Cosmic Rays

Session Chair: Aaron Ewall-Wice

13:30 Masafumi Imai (Inv) Probing Jupiter's auroral radio sources with Juno

14:00 James Harding 3D simulation of type III solar radio bursts

14:15 Patrick McCauley Type III Solar Radio Burst Imaging with the Murchison Widefield Array

14:30 Christopher Jordan A census of ionospheric activity above the MRO with MWA EoR

14:45 Maria Rioja Ionospheric studies using MWA and LOFAR observations

15:00 Jean-Pierre Macquart IPS studies with the MWA: revealing the astrophysical properties of low-frequency selected compact objects

15:15 Final remarks

15:30 Afternoon tea & Close