

SPARCS XIII: The Return of the Data

Conference schedule

All times in Australian Eastern Standard Time (GMT+10)

In-person talks

Online talks

Tuesday

4 November 2025

Zoom link for Tuesday: <https://us06web.zoom.us/j/81408674087?pwd=c8Xh9AneaOdByibphQrmbVxnyaml2W.1>

Session 1	Surveys 1	
9:00-10:30	9:00-9:05	Welcome by LOC
Chair		Tessa Vernstrom
Tessa Vernstrom	9:05-9:10	Welcome by SOC
		Kenda Knowles
	9:10-9:40	DSA2000
		Vikram Ravi <i>(invited)</i>
	9:40-10:10	VCLASS
		Mark Lacy <i>(invited)</i>
	10:10-10:30	The deepest VLA radio continuum surveys in the extragalactic sky
		Eric F. Jiménez-Andrade

Break **10:30-11:00**

Session 2	Surveys 2	
11:00-12:40	11:00-11:30	EMU Overview
Chair		Tessa Vernstrom <i>(invited)</i>
Jaiden Cook	11:30-12:00	Multiscale Magnetism from Two Years of POSSUM
		Craig Anderson <i>(invited)</i>
	12:00-12:20	The Galactic and Extragalactic All-sky MWA (GLEAM) survey at 300 MHz: GLEAM-300
		Stefan Duschense
	12:20-12:40	GaLactic and Extragalactic All-sky Murchison Widefield Array survey eXtended (GLEAM-X) III: Galactic Plane
		Silvia Mantovanini

Lunch **12:40-14:00**

Session 3	Surveys 3	
14:00-15:00	14:00-14:30	LoTSS-HR: The high-resolution post-processing of the LOFAR Two-Metre Sky Survey
Chair		Roland Timmerman <i>(invited)</i>
Tessa Vernstrom	14:30-15:00	Commissioning SKA-Low: first results and future plans towards Science Verification
		George Heald <i>(invited)</i>

Break **15:00-15:30**

Session 4	Surveys 4	
15:30-17:00	15:30-16:00	The MERGHERS Survey
Chair		Kenda Knowles <i>(invited)</i>

Roland Timmerman	16:00-16:30	Wide-field sub-arcsecond imaging at 50 MHz with the LOFAR Low-band Antenna
		Henrik Edler <i>(invited)</i>
	16:30-16:50	The MeerKAT+ S-band Legacy Survey
		Shilpa Ranchod
	16:50-17:20	The MIGHTEE continuum survey
		Imogen Whittam <i>(invited)</i>
Poster Sparklers	17:20-	Poster Sparklers

Wednesday

5 November 2025

Zoom link Wednesday: <https://us06web.zoom.us/j/81460773406?pwd=qLtb3XBZbzL2HihOUEaaQOhLbLmXBn.1>

Session 1	Methods 1
9:00-10:20	9:00-9:20 Beamforming strategies for surveys with SKA-Low
Chair	Danny Price
Minh Huynh	9:20-9:40 Radio Galaxy Zoo: Phase 1 Early Result
	Hongming Tang
	9:40-10:00 All Sky maps from m-mode Spherical Harmonic Transit Interferometry
	Jaiden Cook
	10:00-10:20 Unveiling the Radio Universe with Machine Learning
	Nikhel Gupta

Break	10:40-11:10
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Session 2	Clusters 1
11:10-12:30	11:10-11:30 Unveiling the detailed magnetic field structure of nearby galaxy clusters
Chair	Erik Osinga
Stefan Duchense	11:30-11:50 The Rise of Relic Statistics: What Radio Relics Can Teach Us About Acceleration and Dark Matter
	Wonki Lee
	11:50-12:10 Exploring diffuse radio emission in galaxy groups using EMU & DINGO survey data
	Sai Wagh
	12:10-12:30 New scaling relations for the galaxy cluster diffuse radio emission
	Marco Balboni

Lunch	12:30-14:00
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Session 3	AGN 1
14:00-15:00	14:00-14:20 Exploring Active Galactic Nuclei population in dust-obscured environments : Role of deep field radio continuum surveys
Chair	Veeresh Singh
Wonki Lee	14:20-14:40 Searching for Giant Radio Galaxies (GRGs) for the MIGHTEE survey
	Ndivhuwo Netshiavha

14:40-15:00	Continuum imaging with uGMRT Band-2 (120-250MHz) in deep fields and characterization of diffuse emission: GAMA-23 and ELAISN1
	Rashmi Sagar

Break	15:00-15:30
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Session 4	Galactic And .. clusters
15:30-17:00	15:30-16:00 Magnetism science with the MPIfR-MeerKAT Galactic Plane Survey
Chair	Yi ki Ma <i>(invited)</i>
Kenda Knowles	16:00-16:20 Continuum science with the MPIfR-MeerKAT Galactic Plane Survey
	Jonah Wagnveld
	16:20-16:40 Galactic fields in the LOFAR Two-meter Sky Survey
	Maria Arias
	16:40-17:00 The First High-Frequency (4-8 GHz) RM Grid through the Galactic Plane with GLOSTAR
	Anahat Cheema
	17:00-17:20 On-the-Fly Mapping with MeerKLASS: Large-Scale and Interferometric Imaging in the UHF Band
	Sourabh Paul
	17:20-17:40 Exploring the Non-Thermal Emission in Low-Mass Galaxy Clusters
	Swarna Chatterjee
	17:40-18:00 From Group Dynamics to Cluster Halos: Galaxy Evolution in Groups and the Diffuse Skies in Clusters
	Konstantinos Kolokythas

Thursday 6 November 2025

Zoom Link for Thursday: <https://us06web.zoom.us/j/86230433859?pwd=KKJAhayKjcO95Dz0ZJPtejakJgrrUx.1>

Session 1	AGN 2
9:00-10:20	9:00-9:20 New Evidence for Flaring Radio Sources as Producers of High Energy Neutrinos
Chair	Yjan Gordon
Roland Timmerman	9:20-9:40 The nature of HERGs and LERGs in LoTSS DR2 -- a morphological perspective
	Jones Chilufya
	9:40-10:00 EMU and the DRAGNs
	Ray Norris
	10:00-10:20 Echoes from the Edge: Finding High-Redshift AGN from Radio Surveys
	Nick Seymour

Break	10:40-11:10
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Session 2	Cosmology and Other types of galaxies
11:10 12:30	11:10-11:30 Cosmology clustering systematics from source detection and population with continuum surveys
Chair	David Parkinson
Kenda Knowles	11:30-11:50 Magnetised Galactic Outflows in Dwarf Galaxies
	Sam Taziaux
	11:50-12:10 Odd radio circles: what are they ?

Baerbel S. Koribalski

12:10-12:30 **Unveiling Circularly Symmetric Diffuse Sources and Odd Radio Circles in the SKA Era: A New Frontier in Extragalactic Radio Astronomy**

Shobha Kumari

Lunch **12:30-14:00**

Session 3 **Clusters 2**

14:00-15:00 **14:00-14:20** **Calibration Challenges and Cosmic Magnetism: Low-frequency Polarization of Galaxy Cluster Merger Shocks with uGMRT**

Chair Arpan Pal

Wonki Lee **14:20-14:40** **Strap on your Boots: The Journey to Achieve Widefield Sub-arcsecond Resolution with LOFAR**

Emmy Escott

14:40-15:00 **Building Toward the SKA: A Low-Frequency View of Galaxy Groups**

Ramananda Santra

Break **15:00-15:30**

Session 4 **AGN 3**

15:30-17:00 **15:30-15:50** **The Jet Paths of Radio AGN and their Cluster Weather**

Chair Eleni Vardoulaki

Kenda Knowles **15:50-16:10** **Spectral Ages of Remnant Radio Galaxies with SKA and Pathfinders**

Sushant Dutta

16:10-16:30 **ApPolLo - Apertif counterparts of polarised LOFAR sources**

Anna Berger

16:30-16:50 **A population-based approach to understanding radio AGN feedback with LOFAR**

Jonny Pierce

16:50-17:10 **Role of environment in the jet powering mechanism in radio quasars - insights from the LOFAR Two-metre Sky Survey (LoTSS)**

Bohan Yue

17:10-17:30 **The radio structure of U/LIRGs along spatial scales**

Geferson Lucatelli

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17:30-17:50 **Unveiling the Spectral Properties of Radio Halos in the Galaxy Clusters of the LOFAR sky survey**

Koushika Sri Lakshmi Srikanth

Friday

7 November 2025

zoom link for Friday: <https://us06web.zoom.us/j/88300103810?pwd=h4XHD52BftSiteY0S7cetebeUMb4a.1>

Session 1 **Misc**

9:00-10:20 **9:30-9:50** **Probing radio-quiet AGN feedback: Insights from ASKAP and GAMA**

Chair Simone Candini

9:50-10:10 **Radio Detection of an M Dwarf Binary using e-MERLIN and the VLA**

Kelvin Wandia

10:10-10:30 **Prospects and Plans for SKA-Low Commissioning Surveys**

Break	10:20-11:10	
Session 2 11:10-12:30 Chair	AGN 4	
	11:10-11:30	The study of extended radio galaxy in MERGHERS field
		Banele Mthembu
	11:30-11:50	Synergistic Science with MeerKAT and Rubin LSST
		Unnikrishnan Sureshkumar
	11:50-12:10	The LBA view of bright radio galaxies and their science with long baselines
		Jort Boxelaar
	12:10-	Closing remarks
		SOC & LOC