

SPARCS VII

PROGRAMME

v1.1 19/07/2017

Monday 17th July – EMU Collaboration Meeting – All welcome

Session 1 — Chair: Anna Kapinska

09:00–09:15	Nick Seymour	Welcome and Logistics
09:15–09:35	Ray Norris	ASKAP & EMU
09:35–09:55	Josh Marvil	ASKAP Commissioning and Early Science update
09:55–10:55	Discussion	<i>ASKAP Early Science process (observing, calibration, data reduction, validation, value added data)</i>

10:55–11:25 COFFEE BREAK

Session 2 — Chair: Josh Marvil

11:25–11:40	Andrew Hopkins	ASKAP Pre-Early Science: GAMA23 field
11:40–11:55	Jordan Collier	Radio SEDs in EMU Early Science fields
11:55–12:15	Adriano Ingallinera	Updates from the SCORPIO project: studying resolved Galactic sources
12:15–12:30	Ray Norris	EMU Cosmology (KSP3 update)

12:30–13:50 LUNCH BREAK

Session 3 — Chair: Ray Norris

13:50–14:15	Anna Kapinska	Radio-loud AGN (KSP7 update)
14:30–14:30	Luke Davies	EMU cosmic Star Formation History and stellar mass growth (KSP6 update)
14:30–15:00	Discussion	<i>Engagement in EMU</i>

15:00–15:30 COFFEE BREAK

Session 4 – Chair: Josh Marvil

15:30–15:45	Minh Huynh	CASDA
15:45–17:00	Minh Huynh, Josh Marvil	CASDA tutorial and discussion

Tuesday 18th July – Updates from Pathfinders

Session 1 – Chair: Nick Seymour

09:00–09:30	Rob Beswick	The e-MERLIN Legacy Programme
09:30–10:00	Bradley Frank	Continuum Science with MeerKAT
10:00–10:30	Discussion	<i>What are the common issues faced by the Pathfinders?</i>

10:30-11:00 COFFEE BREAK

Session 2 – Chair: George Heald

11:00-11:30	Jess Broderick	LOFAR: Recent Highlights and Future Prospects
11:30-12:00	Natasha Hurley-Walker	Continuum Surveys with the MWA
12:00-12:30	Dharam Vir Lal	uGMRT summary
12:30-12:40	Discussion	<i>Low Frequency Synergy</i>

12:40-13:40 LUNCH BREAK

Session 3 – Chair: Russ Taylor

13:40-14:10	Joshua Marvil	ASKAP Continuum Surveys
14:10-14:40	Cormac Purcell	Polarisation Present and Future with ASKAP: Great Expectations
14:40-15:00	Discussion	<i>Source extraction techniques/challenges</i>

15:00-15:30 COFFEE BREAK

Session 4 – Chair: Minh Huynh

15:30-16:00	Björn Adebahr	APERTIF Update
16:00-16:30	Amy Kimball	The VLA Sky Survey (VLASS)
16:30-17:00	Discussion	<i>What techniques/expertise can the pathfinders share?</i>

Wednesday 19th July Continuum Science from Pathfinders

Session 5 – Chair: O. Ivy Wong

Galactic Observations and Clusters/Diffuse Emission

09:00-09:20	Hongquan Su	Measuring and Modeling the Galactic Synchrotron Emission Distribution with the GLEAM Survey
09:20-09:40	Adriano Ingallinera	Updates from the SCORPIO Project: Studying Resolved Galactic Sources
09:40-10:00	Dharam Lal	A Sharp View of the Coma Cluster Using Upgraded GMRT
10:00-10:20	Ishwara Chandra	Deep Low Radio Frequency Imaging of Diffuse Targets Using Upgraded GMRT and the Role of SKA
10:20-10:40	Discussion	<i>Dealing with extended emission, what single dish data do we need?</i>

10:40-11:10 COFFEE BREAK

Session 6 – Chair: Bradley Frank

Statistical Analysis and Techniques

11:10-11:30	Jordan Collier	Scientific Validation of ASKAP Continuum Data
11:30-11:50	Tom Franzen	Source Counts and Confusion Across the MWA GLEAM 72-231 MHz band
11:50-12:10	Rajan Chhetri	Subarcsecond Compact Source Population at Low Radio Frequencies and their Properties from Wide Field Interplanetary Scintillation with the MWA

12:10-13:40 LUNCH BREAK

Session 7 – Chair: Amy Kimball

Multi-wavelength Surveys and Statistical Analysis

13:40-14:00	Minh Huynh	GLASS: The GAMA Legacy ATCA Southern Survey
14:00-14:20	Nick Seymour	MWA v TGSS: Finding Low Surface-Brightness Sources
14:20-14:40	Luke Davies	Multi-Wavelength Science in the (pre-)SKA Era
14:40-15:00	Michelle Cluver	<i>WISE</i> Photometry in Support of Large-Area Surveys
15:00-15:20	Discussion	<i>Multi-wavelength synergies</i>

15:20-15:50 COFFEE BREAK

Session 8 – Chair: Rajan Chhetri

Machine Learning and Citizen Science

15:50-16:10	Matthew Alger	Machine Learning Methods for Radio Host Cross Identification with Crowd-Sourced Labels
16:10-16:30	Ray Norris	Machine Learning and Discovering the Unexpected
16:30-16:50	O. Ivy Wong	Radio Galaxy Zoo: Data Release 1
16:50-17:10	Julie Banfield	Using Citizen Science as a Tool for SKA Precursor Data
17:10-17:30	Discussion	<i>Hardware v Wetware: Machine-learning meets Citizen Science</i>

18:30 Workshop Dinner: Balmoral Hotel

Thursday 20th July Polarisation Science from Pathfinders

Session 9 – Chair: Ann Mao

Polarisation

09:00-09:20	Roland Kothes	A DRAO ST Study of the SPARCS Northern Reference Field
09:20-09:40	Craig Anderson	Beyond Rotation Measures: Leveraging Broadband Polarimetry and All-Sky Radio Surveys to Probe Spatially Unresolved Magneto-Ionic Structure in AGN Jets
09:40-10:00	Emil Lenc	Polarisation Studies with the MWA
10:00-10:20	Jeroen Stil	Magnetic Field in the Local Dynamic ISM
10:20-10:40	Discussion	<i>Polarization issues</i>

10:40-11:10 COFFEE BREAK

Session 10 – Chair: Julie Banfield

Radio Galaxies

- 11:10-11:30 Russ Taylor Alignment of Radio Galaxy Jets in Deep Radio Imaging
11:30-11:50 Guillaume Drouart Broad-band SEDs of High-z Radio Galaxies
11:50-12:00 Dharam Vir Lal A GMRT study of an extended sample of X-shaped radio sources
12:00-12:20 Discussion *Broadband Radio SEDs Diagnostics*

12:20-13:40 LUNCH BREAK

Session 11 – Chair: Dharam Vir Lal

Local Universe and Star-forming Galaxies

- 13:40-14:00 Anna Kapinska Star Formation and Physical processes in Sculptor Group Galaxies at Low Radio Frequencies
14:00-14:20 Tim Galvin Broadband Emission of Intense Star Forming Galaxies
14:20-14:40 Solohery The Far-Infrared and Radio Properties of Stacked
Randriamampandry redMaPPer Cluster Galaxies in the Stripe 82
14:40-15:00 Jaiden Cook Searching for Gravitational Lenses from Radio/IR Surveys

15:00-15:30 COFFEE BREAK

Session 12 – Chair: Anna Kapinska

Galaxy Evolution and Deep Fields

- 15:30-15:50 Tom Muxlow Star-formation Across Cosmic Time: Results from the e-MERGE Study of the \sim uJy Radio Source Population
15:50-16:10 Emmanuel The Evolution of the Faint Radio Source Population
Francis Ocran
16:10-16:30 Eliab Malefahlo Evolution of the radio quasar luminosity function below 1mJy
16:30-16:50 Discussion *Applying local models to the distant Universe/Simulated Skies*

Friday 21st July SKA KSP planning (break out sessions):

SKA Magnetism and Continuum SWG team meetings