

2018 LOFAR Magnetism KSP Annual Meeting Program

Kraków, Poland, 10-14 September 2018
Faculty of Physics, Astronomy and Applied Computer Science of the Jagiellonian University

MONDAY 10 SEPTEMBER

Lecture room A-1-03

9:00 - 9:15 Registration

9:15 - 9:30 Welcome words by the Jagiellonian University authorities

LOFAR and surveys session (Chair Cathy Horellou)

Invited talks

9:30 - 10:00 Marco Iacobelli, LOFAR: current status and future perspectives

10:00 - 10:15 Cyril Tasse, Calibration and imaging algorithms of the LOFAR Two-metre Sky Survey

10:15 - 10:45 Tim Shimwell, An update on the LOFAR Two-metre Sky Survey

10:50 - 11:20 Coffee

Milky Way session (Chair Marco Iacobelli)

Invited talk

11:20 - 11:50 Jörg P. Rachen, Ultra-high energy cosmic ray deflections in the Galactic magnetic field

11:50 - 12:05 Vibor Jelic, Magnetically aligned straight depolarisation canals and the Rolling Hough Transform

12:05 - 12:20 Marta Alves, Faraday tomography of a high Galactic latitude region: search for Faraday filaments (remote talk)

12:20 - 12:35 Charlotte Sobey, LOFAR Faraday rotation measures towards pulsars

12:35 - 13:40 Lunch (ground floor)

Cosmic Rays session (Chair Marco Iacobelli)

13:40 - 13:55 Andrew Fletcher, Modelling Cosmic Ray Electron Propagation

13:55 - 14:10 Volker Heesen, Modelling radio haloes in nearby galaxies with 1D cosmic ray transport

Nearby Galaxies session (Chair Andrew Fletcher)

14:10 - 14:25 Cathy Horellou, Activities of the Nearby Galaxies working group

14:25 - 14:40 George Heald, A multifrequency view of the extended radio continuum halo in NGC 5775

14:40 - 14:55 Arpad Miskolczi, CHANG-ES XIV: A LOFAR and VLA view of the edge-on star-forming galaxy NGC3556

14:55 - 15:10 Ralf-Juergen Dettmar, The CHANG-ES view of edge-on galaxies

15:10 - 15:25 Julia Piotrowska, LOFAR view of NGC6946

15:30 - 16:00 Coffee

Discussion session (Chair Andrew Fletcher)

16:00 - 17:00 Science Discussion 1 - IMAGINE - Jörg P. Rachen and Andrew Fletcher

17:00 - 18:00 Science Discussion 2 - MKSP membership, MKSP WGs - George Heald and WGs chairs

19:30 DINNER in the downtown

TUESDAY 11 SEPTEMBER

Lecture room A-1-03

Nearby Galaxies session - continued (Chair Andrew Fletcher)

9:15 - 9:30 Björn Adebahr, Thermal absorption in M51

9:30 - 9:40 Krzysztof Chyży, MSSS galaxy spectra

Methods sessions (Chair Charlotte Sobey)

Invited talk

9:40 - 10:10 Hanna Rothkaehl, Probing ionospheric structures with LOFAR

10:10 - 10:25 Sarrvesh Sridhar, cuFFS: A GPU accelerated package for RM Synthesis Presentation

10:25 - 10:40 Yoshimitsu Miyashita, Sparse reconstruction using total squared variation of polarimetric observations at low frequency

10:40 - 10:55 Haruya Eguchi, Analysis of the magnetic field of galaxies using Faraday tomography

11:00 - 11:30 Coffee

Radio galaxies session (Chair Volker Heesen)

Invited talk

11:30 - 12:00 Magdalena Kunert-Bajraszewska, AGN's life cycle - short-lived radio sources

12:00 - 12:15 Marek Jamroz, Powerful radio galaxies and their life cycles

12:15 - 12:30 Noelia Herrera Ruiz, VLBI uncovering the AGN population

12:30 - 13:30 Lunch (ground floor)

13:30 - 13:45 Shane O'Sullivan, Intergalactic magnetic fields probed by giant radio galaxies

13:45 - 14:00 Urszula Pajdosz, Megaparsec-scale radio structure associated with a hybrid blazar: episodic jet activity with precessing axis

Galaxy groups and clusters session (Chair Ralf-Juergen Dettmar)

14:00 - 14:15 Marek Urbanik, Pre-LOFAR low-frequency studies of intergalactic magnetic fields in galaxy pairs and groups

14:15 - 14:30 Amanda Wilber, The evolutionary phases of merging clusters as revealed by LOFAR

Discussion session (Chair Ralf-Juergen Dettmar)

14:40 - 15:30 Science Discussion 3 - Polarization and ionospheric corrections - Shane O'Sullivan, Hanna Rothkaehl

15:30 - 16:00 Coffee

16:00 - 16:45 Science Discussion 4 - LoTSS, proposals and future - Tim Shimwell, Cyril Tasse, George Heald, Ralf-Juergen Dettmar, Krzysztof Chyży

Open lecture (Lecture room A-1-06) (Chair Błażej Nikiel-Wroczyński)

17:00 - 18:00: George Heald and Tim Shimwell, Exploring the Universe with the world's largest radio telescopes

18:00 - 18:30 Closing remarks

WEDNESDAY 12 SEPTEMBER

Busy day

Computer room F-1-08

9:30 - 9:45 Plans for busy days - Shane O'Sullivan

9:45 - 11:00 Science discussion 5, LOFAR 2.0 planning, etc. moderators TBD

11:00 - 11:30 Coffee

12:30 - 13:30 Lunch (ground floor)

15:30 - 16:00 Coffee

THURSDAY 13 SEPTEMBER

Busy day

Computer room F-1-08

9:30 -

11:00 - 11:30 Coffee

12:30 - 13:30 Lunch (ground floor)

15:30 - 16:00 Coffee

Grill party

FRIDAY 14 SEPTEMBER

Busy day

Computer room F-1-08

9:30 -

11:00 - 11:30 Coffee

12:30 - 13:30 Lunch (ground floor)