

Cosmic Magnetism in the Pre-SKA Era: Timetable

Inamori Kaikain, Kagoshima University, Japan, May 27 - 31, 2024

UTC	JST			Title	Speaker	Affiliation
start	start	end	span			
Day 1, Monday, 2024/5/27						
23:00	8:00	8:50	0:50	Reception open		
23:50	8:50	8:55	0:05	Welcome	Takuya Akahori	SOC chair
23:55	8:55	9:00	0:05	LOC Announcement	Haruka Sakemi	LOC chair
Session 1: SKA and Precursor/Pathfinder Surveys : Chair (Naomi McClure-Griffiths)						
0:00	9:00	9:35	0:35	SKA Observatory update and Cosmic Magnetism Data Challenge	Anna Bonaldi	Square Kilometre Array Observatory (SKAO)
0:35	9:35	9:55	0:20	How to observe your favourite source(s) with the SKA telescopes?	Sarvesh Seethapuram Sridhar	Square Kilometre Array Observatory (SKAO)
0:55	9:55	10:25	0:30	Break		
1:25	10:25	11:00	0:35	GMIMS North: Faraday Tomography Surveys at the Dominion Radio Astrophysical Observatory	Anna Ordog	Dominion Radio Astrophysical Observatory & University of British Columbia Okanagan
2:00	11:00	11:20	0:20	Early Results from the DRAGONS Faraday Depth Survey	Rebecca Booth	University of Calgary
2:20	11:20	11:40	0:20	Polarization science with the MPIfR MeerKAT Galactic Plane Survey (MMGPS)	Ancor Damas Segovia	Max Planck Institute für Radioastronomie - Bonn
2:40	11:40	13:10	1:30	Lunch		
Session 1: Continued: Chair (Craig Anderson)						
4:10	13:10	13:45	0:35	SPICE-RACS: Towards a full-sky, full-band ASKAP polarisation survey	Alec Thomson	Commonwealth Scientific and Industrial Research Organisation (CSIRO)
4:45	13:45	14:05	0:20	QUOCCA - A systematical Polarisation Survey for over 400 Radio Galaxies in the Southern Sky	Yuanqi Liu	Shanghai Astronomical Observatory, CAS
5:05	14:05	14:25	0:20	Aper-V - The Apertif Circular Polarisation Survey	Björn Adebahr	Astronomy Institute Ruhr University Bochum (AIRUB)
5:25	14:25	14:45	0:20	The LOFAR Faraday rotation measure grid	Shane O'Sullivan (online)	Universidad Complutense de Madrid
5:45	14:45	15:15	0:30	Break		
6:15	15:15	15:35	0:20	First results from ASKAP POSSUM - Polarisation Sky Survey of the Universe's Magnetism	George Heald	CSIRO
6:35	15:35	15:55	0:20	Building the Polarization Survey of the Future: Technical development of the POSSUM survey	Cameron Van Eck	Australian National University
6:55	15:55	16:15	0:20	Presenting prototype Faraday rotation measure catalogs of pilot observations from the Polarisation Sky Survey of the Universe's Magnetism (POSSUM)	Shannon Vanderwoude (Jennifer West)	Dunlap Institute, University of Toronto
7:15	16:15	16:35	0:20	Exploring Degeneracy in QU-Fitting with the POSSUM Survey	Lindsey Oberhelman	Australian National University
7:35	16:35	17:05	0:30	Break		
Session 2: Stars: Chair (Marijke Haverkorn)						
8:05	17:05	17:40	0:35	TBD	Harish Vedantham	
8:40	17:40	18:00	0:20	The RADIO Magnetospheres of A, B and O Stars (RAMBO) project	Zsolt Keszthelyi	National Astronomical Observatory of Japan (NAOJ)
Poster session: Chair (Marijke Haverkorn)						
9:00	18:00	18:15	0:15	Poster Flash. 14 posters, each 1 minute, see the poster list		
9:15	18:15	19:15	1:00	Welcome Drink Party		

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start	start	end	span	Title	Speaker	Affiliation
Day 2, Tuesday, 2024/5/28						
23:00	8:00	8:50	0:50	Reception open		
23:50	8:50	9:00	0:10	Announcement	Takuya & Haruka	SOC/LOC chair
Session 3: ISM : Chair (Alec Thomson)						
0:00	9:00	9:35	0:35	Magnetic Fields in the Dense Interstellar Medium in the SKA Era	Thushara Pilai	MIT Haystack Observatory
0:35	9:35	9:55	0:20	Modeling Galactic Synchrotron Absorption Measurements in the HII region behind the Galactic center	Ala'a AL-Zetuon	Khalifa University
0:55	9:55	10:15	0:20	Magnetic fields in the multiphase ISM	Amit Seta	Australian National University
1:15	10:15	10:35	0:20	Advancing Cosmic-Ray Modeling to Illuminate the Magnetized and Multiphase Galaxy	Andrea Bracco	INAF - Osservatorio Astrofisico di Arcetri (IT)
1:35	10:35	11:05	0:30	Break		
2:05	11:05	11:25	0:20	Faraday tomography of LoTSS-DR2 data - Revealing the Local Bubble	Ana Erceg	Ruder Boskovic Institute, Zagreb, Croatia
2:25	11:25	11:45	0:20	Optical starlight polarimetry to probe the magnetized, turbulent interstellar medium	Yenifer Angarita Arenas	Radboud University
2:45	11:45	12:05	0:20	Novel techniques in the SKA Era: Mapping the Complete Interstellar 3D Magnetic Fields	Mehrnoosh Tahani	Stanford University
3:05	12:05	12:25	0:20	Galactic structure seen through the small-scale magnetic field	Jeroen Stil	University of Calgary
3:25	12:25	13:15	0:50	Lunch		
4:15	13:15	14:15	1:00	Cosmic Magnetism SWG meeting	Jennifer West	
Session 3: Continued : Chair (Jennifer West)						
4:15	14:30	15:05	0:35	Magnetic Fields in the Milky Way on the path to SKA	Marijke Haverkorn	Radboud University
4:50	15:05	15:25	0:20	Probing Galactic Magnetic Fields using Polarisation Observations of Pulsars	Charlotte Sobey	Square Kilometre Array Observatory (SKAO) & Commonwealth Scientific and Industrial Research Organisation (CSIRO)
5:10	15:25	15:45	0:20	Extreme Faraday Complexity Observed in Polarised Extragalactic Radio Sources on the Galactic Plane	Yik Ki (Jackie) Ma	Australian National University
5:30	15:45	16:05	0:20	Explore Galactic diffuse polarized emission: from low to high frequency	Xiaohui Sun	Yunnan University
5:50	16:05	16:25	0:20	Exploring the Galactic latitude dependence of Faraday complexity in the SPASS/ATCA RM catalogue	Shilpa Ranchod	Max Planck Institute for Radio Astronomy
6:10	16:25	16:55	0:30	Break		
Session 4: Galaxies : Chair (Aritra Basu)						
6:40	16:55	17:30	0:35	Magnetic fields in the Magellanic System	Naomi McClure-Griffiths	Australian National University
7:15	17:30	17:50	0:20	Search for magnetized circumgalactic clouds using Faraday rotation	Lyla Jung	University of Oxford
7:35	17:50	18:10	0:20	Modelling magnetic field of M31 using radio observations	Tuhin Ghosh	NISER Bhubaneswar

UTC	JST					
start	start	end	span	Title	Speaker	Affiliation
Day 3, Wednesday, 2024/5/29						
23:00	8:00	8:50	0:50	Reception open		
23:50	8:50	9:00	0:10	Announcement	Takuya & Haruka	SOC/LOC chair
Session 4: Continued : Chair (Xiaohui Sun)						
0:00	9:00	9:35	0:35	Magnetic field structure of nearby galaxies	Hiroyuki Nakanishi	Kagoshima University
0:35	9:35	9:55	0:20	Exploring magnetised galactic outflows in dwarf galaxies	Sam Taziaux	Ruhr Universität Bochum
0:55	9:55	10:15	0:20	Saturation mechanism of Fluctuation dynamos and insights from the morphology of structures in polarized synchrotron emission	Sharanya Sur	Indian Institute of Astrophysics
1:15	10:15	10:35	0:20	Detecting the magnetic field of two lensing galaxies at $z = 0.414$ and $z = 0.685$	Timea Kovacs	MPIA
1:35	10:35	11:05	0:30	Break		
Session 5: AGN and Radio Galaxies : Chair (Bryan Gaensler)						
2:05	11:05	11:40	0:35	AGNs and Radio Galaxies: Insights and Future Prospects with the SKA	Lerato Baidoo	University of Toronto, Canada
2:40	11:40	12:00	0:20	The Spatial and Temporal Evolution of Faraday Rotation in AGN jets	Jack Livingston	Max Planck Institute for Radio Astronomy (MPIfR)
3:00	12:00	12:20	0:20	AGN-Starburst composites in radio frequencies	Crystal Mele	Astronomy Institute Ruhr University Bochum (AIRUB)
3:20	12:20	13:30	1:10	Lunch		
4:30	13:30	18:30	5:00	Excursion		

List of Poster Presentations		
P01	Constraints on extragalactic magnetic fields from ultra-high-energy cosmic rays	Ala'a AL-Zetoun
P02	Understanding the role of magnetic fields in star formation by combining radio	Ayush Pandhi
P03	Associating LOFAR Galactic Faraday structures with the warm neutral medium	Francois Boulanger (Andrea Bracco)
P04	Polarization Analysis of SNR, MSH15-56, by using Faraday tomography	Ikki Tamura
P05	Depolarisation and Faraday Complexity in the SMC with POSSUM	Jason Price
P06	Polarization structures of the non-thermal filaments revealed in the MeerKAT	Ka-Yui Shum
P07	Effect of stellar wind by companion star on SS433 jet	Miho Tan
P08	MHD + thermal conduction simulations about the interaction of AGN jets and	Nana Tatsuno
P09	Exploring magnetised galactic outflows in dwarf galaxies	Sam Taziaux
P10	Conversion of mixed-polarization VLBI visibilities in the pre-SKA era	Satoko Sawada-Satoh
P11	Studying Faraday cubes with deep learning	Shinsuke Ideguchi
P12	The Local Group L Band Survey: Magnetic fields in our nearest neighbours	Timea Kovacs
P13	Development of radiation transfer code from ionized gas and dust based on	Yuki Kudoh
P14	Polarization analysis of the AGN jet in the IC4296 using Faraday tomography	Yuto Abe

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Day 4, Thursday, 2024/5/30						
23:00	8:00	8:50	0:50	Reception open		
23:50	8:50	9:00	0:10	Announcement	Takuya & Haruka	SOC/LOC chair
Session 5: Continue : Chair (Lerato Baidoo)						
0:00	9:00	9:20	0:20	Revealing Faraday structures local to the radio source	Lawrence Rudnick (online)	University of Minnesota
0:20	9:20	9:40	0:20	Polarization analysis of a head-tail radio galaxy MRC 0600-399	Haruka Sakemi	Yamaguchi University
0:40	9:40	10:00	0:20	Exploring the RM and Faraday complexity in Radio lobes.	Jaswanth Subramanyam	Max Planck Institute for Radio Astronomy, Bonn
1:00	10:00	10:20	0:20	Unveiling the Structure of Radio Lobes and Their Environments using Ultra-broadband Radio Polarimetry	Sarah Bradbury	Australian National University
1:20	10:20	10:40	0:20	Radio observation of AGN jets from the central cD galaxy of Phoenix Galaxy Cluster which is in the catastrophic evolution phase	Aika Oki	University of Tokyo / National Astronomical Observatory of Japan (NAOJ)
1:40	10:40	11:10	0:30	Break		
Session 6: Galaxy Clusters and Filaments : Chair (Jeroen Stil)						
2:10	11:10	11:45	0:35	Turbulence Dynamo as the Origin of Magnetic Fields in Clusters of Galaxies	Dongsu Ryu	Ulsan National Institute of Science and Technology (UNIST)
2:45	11:45	12:05	0:20	Discovery of diffuse radio emission in two galaxy clusters	Kohei Kurahara	National Astronomical Observatory of Japan (NAOJ)
3:05	12:05	12:25	0:20	The nature of the magnetic field in galaxy clusters that is yet to be understood	Takuya Akahori	National Astronomical Observatory of Japan (NAOJ)
3:25	12:25	13:55	1:30	Lunch		
Session 6: Continued : Chair (Dongsu Ryu)						
4:55	13:55	14:30	0:35	Galaxy clusters physics with SKA	Francesca Loi	INAF-OAC
5:30	14:30	14:50	0:20	Probing cluster magnetic fields via radio source depolarisation and background rotation measures	Erik Osinga	Dunlap Institute for Astronomy and Astrophysics
5:50	14:50	15:10	0:20	Probing intracluster magnetic fields using radio depolarization	Alvina On	National Center for Theoretical Sciences
6:10	15:10	15:30	0:20	Magnetic fields in galaxy clusters unveiled by joining polarization and gradient techniques	Chiara Stuardi (online)	INAF - Istituto di Radioastronomia
6:30	15:30	16:00	0:30	Break		
7:00	16:00	16:20	0:20	Magnetic fields in the outskirts of galaxy clusters: New results from MACS0717+3745 and the Toothbrush	Matthias Hoeft	Thüringer Landessternwarte
7:20	16:20	16:40	0:20	Probing the magnetic field at the cluster virial radius with volume-filling radio emission	Andrea Botteon	INAF-IRA
7:40	16:40	17:00	0:20	Pervasive Magnetised Gas Around Galaxy Groups Revealed With POSSUM	Craig Anderson	Australian National University
8:00	17:00	18:30	1:30	Move to the banquet venue		
9:30	18:30	20:30	2:00	Banquet		

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Day 5, Friday, 2024/5/31						
23:00	8:00	8:50	0:50	Reception open		
23:50	8:50	9:00	0:10	Announcement	Takuya & Haruka	SOC/LOC chair
Session 6: Continued : Chair (Takuya Akahori)						
0:00	9:00	9:35	0:35	New Era of Merging Clusters study combining XRISM X-ray Observatory and SKA-precursor Observatories	Kazuhiro Nakazawa	Nagoya University
0:35	9:35	9:55	0:20	Properties of the Intracluster Medium around Northwest Relic in Abell 3667	Daisuke Ito	Nagoya University
0:55	9:55	10:15	0:20	Is Abell 3667 an offset merger?	Yuki Omiya	Nagoya University
1:15	10:15	10:45	0:30	Break		
Session 7: Cosmology and Lensing : Chair (John McKean)						
1:45	10:45	11:20	0:35	TBD	Simona Vegetti	
2:20	11:20	11:40	0:20	TNG50 cosmological simulations: Mean magnetic field-- dynamical mass relation in central disc galaxies	Fatemeh Tabatabaei (online)	Institute for Research in Fundamental Sciences
2:40	11:40	12:00	0:20	Galactic magnetic fields and scaling relations: a theoretical perspective	Luke Chamandy	National Institute of Science Education and Research
3:00	12:00	13:30	1:30	Lunch		
Session 7: Continued : Chair (Keitaro Takahashi)						
4:30	13:30	13:50	0:20	Understanding the radio luminosity function of star-forming galaxies and its cosmological evolution	Charles Jose (online)	Department of Physics, CUSAT, Kerala, India
4:50	13:50	14:10	0:20	Deciphering Cosmic Magnetism: Magnetic Helicity Measurements through Radio Polarisation	Jennifer Yik Ham Chan	Canadian Institute for Theoretical Astrophysics (CITA)
5:10	14:10	14:30	0:20	Lensing over Frequency and Time (LoFT): First results from broad-band high-frequency monitoring of lensed quasars	John McKean	Kapteyn Astronomical Institute / SARAO / University of Pretoria
5:30	14:30	15:00	0:30	Break		
Session 8: Transients and Cosmic Rays : Chair (George Heald)						
6:00	15:00	15:35	0:35	Widefield Time-Domain Spectropolarimetry of the Radio Sky	Bryan Gaensler	University of California Santa Cruz
6:35	15:35	15:55	0:20	Insights into fast radio burst origins from their polarization properties using CHIME/FRB	Ayush Pandhi	University of Toronto
6:55	15:55	16:15	0:20	Cosmic magnetism and its effects on the observed properties of ultra high-energy cosmic rays	Ellis Owen	Osaka University
7:15	16:15	16:35	0:20	The importance of cosmic magnetic fields in the interpretation of ultrahigh-energy cosmic ray observations	Ryo Higuchi	RIKEN
7:35	16:35	16:50	0:15	Short Break		
Session 9: Discussion : Chair (Takuya Akahori)						
7:50	16:50	17:20	0:30	Discussion		
8:20	17:20	17:40	0:20	Concluding Remarks (Best oral and poster awards)		