New Perspectives on Galactic Magnetism June 10th-14th 2019, Newcastle Upon Tyne, UK

Monday June 10th

11:30-12:50	Registration in Robert Boyle Lecture Theatre		
12:50-13:00	Opening Remarks	Andrew Fletcher	
13:00-13:30	Magnetic fields in external galaxies	George Heald	
13:30-13:50	The radio continuum view on galactic winds	Volker Heesen	
13:50-14:10	Magnetic fields in the halo of spiral galaxies seen edge-on – as deduced from CHANG-ES	Marita Krause	
14:10-14:30	Magnetized disk-halo transition region of M51	Maja Kierdorf	
14:30-15:10	Coffee & Posters		
15:10-15:50	Dynamo theory	Kandu Subramanian	
15:50-16:10	Physical aspects of turbulent dynamos	Anvar Shukurov	
16:10-16:30	Magnetic fields in elliptical galaxies	Amit Seta	
16:30-16:50	Synthesizing theory and observation to understand galactic magnetic fields	Luke Chamandy	
16:50-17:10	Discussion		

Tuesday June 11th

09:00-09:40	Large-scale magnetic fields and the Milky Way ISM	Tess Jaffe	
09:40-10:00	Probing Galactic magnetic field using radio observations of absorbed HII regions	Irene Polderman	
10:00-10:20	Radio broadband Faraday depth grid towards the Milky Way field reversal region	Yik Ki (Jackie) Ma	
10:20-11:00	Coffee & Posters		
11:00-11:40	Galactic Center magnetic fields	Cornelia Lang	
11:40-12:00	High-latitude synchrotron polarization and the local interstellar field	Paddy Leahy	
12:00-12:20	Low frequency Faraday rotation measure towards pulsars using LOFAR: probing the 3-D Galactic halo magnetic field	Charlotte Sobey	

12:20-12:40	Discussion	
12:40-14:00	Lunch	
14:00-14:30	Low-frequency polarimetry	Cameron Van Eck
14:30-14:50	The Global Magneto-Ionic Medium Survey	Tom Landecker
14:50-15:10	Revealing the magneto-ionic structure of the nearby ISM with GMIMS Faraday tomography	Alec Thomson
15:10-15:50	Coffee & Posters	
15:50-16:10	Observations of the interaction between HVCs of neutral hydrogen and the Galactic magnetic field	Roland Kothes
16:10-16:30	GMIMS and the Polarization Horizon	Alex Hill
16:30-16:50	Synthetic spectro-polarimetric observations of MHD turbulence in the ISM	Aritra Basu
16:50-17:10	Discussion	

Wednesday June 12th

09:00-09:40	Small-scale magnetic fields and the Milky	Marijke	
	Way ISM	Haverkorn	
09:40-10:00	The Zeeman effect as a tracer of magnetic fields in the Milky Way and beyond	Tim Robishaw	
10:00-10:20	Linking scales of Galactic magnetism: star forming fields traced by maser Zeeman splitting	Chikaedu Ogbodo	
10:20-11:00	Coffee & Posters		
11:00-11:30	Polarized filaments	Vibor Jelic	
11:30-11:50	The magnetic interstellar medium in three dimension	Susan Clark	
11:50-12:10	Radio Polarimetry and 21 cm HI as a Probe of Galactic Magnetism	Jessica Campbell	
12:10-12:30	Magnetic helicity from the Local Bubble	Katia Ferrière	
12:30-12:50	Discussion		
12:50-14:00	Lunch		
14:00-14:20	The LOFAR Magnetism Key Science Project	Cathy Horellou	
14:20-15:00	Broadband polarimetry at m, cm and mm wavelengths	Shane O'Sullivan	
15:00-19:30	Free afternoon to explore		
19:30-	Conference Dinner: Turknaz in Whitney Bay		

Thursday June 13th

09:00-09:40	Cosmic rays – Propagation	Carmelo Evoli	
09:40-10:10	Cosmic ray acceleration & SNR	Tony Bell	
10:10-10:50	Coffee & Posters		
10:50-11:30	Dynamo & MHD simulations	Rüdiger Pakmor	
11:30-11:50	Large-scale dynamos at high magnetic Reynolds	Pallavi Bhat	
	numbers and helicity fluxes		
11:50-12:10	How cosmic rays shape galaxies	Christoph Pfrommer	
12:10-12:30	Modeling CR electron propagation and synchrotron emission from CR-driven dynamo in spiral galaxies	Michał Hanasz	
12:30-12:50	Discussion		
12:50-14:00	Lunch		
14:00-14:30	Gamma rays, the ISM & magnetic fields	Isabelle Grenier	
14:30-14:50	The dynamical impact of cosmic rays and magnetic fields in the ISM	Philipp Girichidis	
14:50-15:10	Simulating galaxy formation with cosmic rays: the multi-frequency view	Maria Werhahn	
15:10-15:50	Coffee & Posters		
15:50-16:20	Redshift evolution of galactic magnetic fields	Sui Ann Mao	
16:20-16:40	Magnetic fields and dynamo action in evolving galaxies	Luiz Rodrigues	
16:40-17:00	Discussion		

Friday June 14th

09:00-09:40	Polarization Surveys	Bryan Gaensler
09:40-10:00	Magnetic fields around galactic disks	Dimitry Sokoloff
10:00-10:20	Detecting the magnetoionized intragroup medium of galaxy group NGC 2563	Anna Williams
10:20-11:00	Coffee & Posters	
11:00-11:20	FRB as probes of extragalactic magnetic fields	Ryan McKinven
11:20-11:40	Discussion	
11:40-12:10	Conference Wrap up	Ralf-Jürgen Dettmar

End of conference

Posters

Ariel Amaral	Using cross-correlation methods to probe large-scale magnetic fields
Prasanta Bera	Dynamo action in dwarf galaxies
Nergis Cesur	The Magnetic Field Strength in the ζ-Ophiuchi HII Region Sh2-27
Jennifer Chan	Cosmological polarized radiative transfer as a probe of large-scale magnetic field structures
Can Evirgen	Magnetic effects on the structure of the interstellar medium
Adriana Gazol	Geometrical properties of simulated magnetized cold neutral clouds
Fred Gent	Dynamo driven magnetic fields in the interstellar medium
Gilberto Gomez	MHD simulations of jellyfish galaxies
Gilberto Gomez	Magnetic structures in molecular filaments
Sarah Higdon	Magnetic fields in the star forming nuclear ring in NGC 2997
Irina Makarenko	Comparison of MHD simulations and observations of the Galaxy using topological analysis
Yoshimitsu Miyashita	Faraday dispersion function of disk galaxies with axisymmetric global magnetic fields II - 3D structure
Mateusz Ogrodnik	Implementation of energy dependent transport of cosmic rays in MHD code Piernik
Anna Ordog	Comparing extended emission and compact source rotation measures to probe the large-scale Galactic magnetic field
Nicolas Peschken	Cosmic ray driven winds from magnetized galactic disks
Julia Piotrowska	LOFAR Insight into Cosmic Ray Electron Propagation in NGC 6946
Luke Pratley	Wide-band Rotation Measure Synthesis
Devika Tharakkal	Random magnetic fields, cosmic rays and synchrotron fluctuations
Marek Wezgowiec	Can we observe reconnection heating in spiral galaxies
Georg Winner	Evolution of cosmic ray electron spectra in magnetohydrodynamical simulations
Dominic Wóltański	Synchrotron emission from a spiral galaxy in the CR-driven dynamo model