MONDAY

8:00 - 9:00	REGISTRATION
9:00 - 9:30	CONFERENCE OPENING
Session 1: Processing cosmic plasma: turbulence and dynamo processes Part 1 → Chair: Michał Hanasz	
9:30 - 10:15	Grzegorz Kowal
	"Fast Magnetic Reconnection in Turbulent Media"
10:15 - 10:45	
	"Progress towards a high magnetic Reynolds number plasma dynamo in the lab"
10:45 - 11:10	COFFEE BREAK
11:10 - 11:30	Jean-Baptiste Durrive
	"Intergalactic magnetogenesis at the Epoch of Reionization by photoionization"
11:30 – 11:50	Diego Falceta-Goncalves
	"Magnetic Fields and the Dynamics of Spiral Galaxies: Origins of Turbulence and Star
	Formation"
11:50 – 12:10	Oliver Gressel
	"Towards a hybrid dynamo model for the Milky Way"
12:10 – 12:30	Sergei Komarov
10.00 10.00	"Suppression of local heat flux in a turbulent magnetized intracluster medium"
12:30 – 13:30	
12 20 14 00	Part 2 → Chair: Rainer Beck
13:30 – 14:00	Blakesley Burkhart The Rele of the Magnetic Field in the Turbulent Melecular Medium?
14.00 14.20	"The Role of the Magnetic Field in the Turbulent Molecular Medium"
14:00 – 14:30	Michał Hanasz
14.20 14.50	"Magnetic field structures from the Cosmic-Ray-driven dynamo" Katarzyna Otmianowska-Mazur
14:30 – 14:50	· · · · · · · · · · · · · · · · · · ·
	"Cosmic ray driven dynamo in barred and dwarf irregular galaxies. 3D numerical global simulations"
14.50 - 15.10	Luke Chamandy
14.30 – 13.10	"Dynamo Action in Spiral Galaxies"
15.10 - 15.30	Sho Nakamura
10.10	"Magnetic Fields Evolution in Grand-design Spiral Galaxies with 3D MHD
	Simulations"
15:30 – 15:50	Andrey Beresnyak
	"Asymmetric diffusion of magnetic field lines"
15:50 - 16:20	COFFEE BREAK
	Part 3 → Chair: Grzegorz Kowal
16:20 - 17:05	Ethan Vishniac
	" Magnetic Helicity and the Galactic Dynamo" REMOTE TALK
17:05 - 17:25	Kiwan Park
	"Influence of small scale magnetic energy and helicity on the growth of large scale
	magnetic field"
17:25 – 17:45	Avijeet Prasad
	"A helicity constrained model of galactic dynamo in a force-free corona"
17:45 – 18:05	Luiz Andrade
40.05 40.65	"Lorentz violation and cosmic magnetic fields from spin-polarised qcd domain walls"
18:05 – 18:35	DISCUSSION

TUESDAY

Session 2: Magnetic fields in and around stellar and compact objects Part 1 → Chair: Marek Jamrozy

9:00 – 9:45 Maxim Lyutikov

"Magnetars: why, where and how flares occur."

9:45 – 10:15 Reinaldo Santos-Lima

"Reconnection Diffusion efficiency during star formation"

10:15 – 10:35 Ding-Xiong Wang

"The Role of Magnetic Field in State Transition of Black Hole X-ray Binaries"

10:35 - 11:10 COFFEE BREAK

11:10 – 11:30 Timothy Handy

"Impact of self-generated magnetic fields on the core-collapse supernova explosion mechanism"

11:30 – 12:00 DISCUSSION

12:00 - 13:00 LUNCH

Session 3: Magnetic fields in our and external galaxies Part 1 → Chair: Maxim Lyutikov

13:00 – 13:45 Marijke Haverkorn

"Magnetized turbulence in the Milky Way and M51"

13:45 – 14:05 Roland Kothes

"A Relation between the Warm Neutral and Magneto-ionized Media Observed in the Canadian Galactic Plane Survey"

14:05 – 14:25 Michiel Brentjens

"The polarized Galactic synchrotron foreground: an unlikely calibrator"

14:25 – 14:45 Emily Freeland

"A Magnetically Draped Bubble in the Nucleus of a Nearby Galaxy : The Face-On Extragalactic Analogue to Our Galactic Center"

14:45 – 15:05 Niels Opperman

"Magnetic fields as seen through Faraday rotation from the Milky Way to cosmic scales"

15:05 - 15:25 Vibor Jelic

"Diffuse polarized emission in the LOFAR-EoR observing windows"

15:25 - 16:00 COFFEE BREAK

Part 2 → Chair: Marijke Haverkorn

16:00 – 16:30 Marita Krause

"Magnetic fields in galaxies (including first results from the EVLA CHANG-ES survey)"

16:30 – 16:50 David Mulcahy

"Nearby Spiral Galaxies at Low Frequencies: First observations of nearby galaxies with LOFAR"

16:50 – 17:10 Aritra Basu

"Magnetic field strengths and ISM properties of star-forming galaxies"

17:10 - 17:40 DISCUSSION

Session 3: Magnetic fields in our and external galaxies

Part $3 \rightarrow$ Chair: Axel Brandenburg **9:00 – 9:45** Andrew Fletcher "What do we really know about the magnetic fields of spiral galaxies?" 9:45 – 10:15 Ann Mao "Properties of the Magneto-ionic Medium in the Halo of M51 revealed by Wide-band Polarimetry" **10:15 – 10:35** Anna Williams "Untangling the Magnetic Fields in NGC 6946 Using Wide-Band Polarimetry" **10:35 – 10:55** Sarrvesh S. Sridhar "Magnetic field structures in the Pinwheel galaxy (M101/NGC5457)" 10:55 – 11:25 COFFEE BREAK **Part 4** → **Chair: Cathy Horellou** 11:35 – 12:05 Dominik Bomans "Magnetic fields in low mass galaxies" **12:05 – 12:25** Krzysztof Chyży "Magnetic fields in dwarfs, Magellanic-type and perturbed galaxies. Next surprises" **12:25 – 12:55** Marek Jamrozy "The extreme radio galaxies and their impact on the environment" 12:55 – 13:15 Sumana Nandi "A radio study of misaligned double-double radio galaxies" 13:15 – 13:35 DISCUSSION (Andrew Fletcher) 13:35 – 14:35 LUNCH Session 4: Detection of magnetic helicity and modelling polarized emission Chair: (Katarzyna Otmianowska-Mazur) 14:35 – 15:20 Axel Brandenburg "Detection of magnetic helicity in stars and galaxies" **15:20 – 15:50** Dominic Schnitzeler "Polarization spectra of point sources" 15:50 - 16:20 COFFEE BREAK **16:20 – 16:40** Rodion Stepanov "Polarization features of the Faraday thick source with the helical magnetic field" **16:40 – 17:00** Cathy Horellou

"Helical magnetic fields and Faraday depolarization"

17:00 - 17:30 DISCUSSION

THURSDAY

Session 5: Magnetic fields in galaxy systems: pairs, groups, clusters and the filaments

Part1 → Chair: Uli Klein

9:00 – 9:45 Gianfranco Brunetti

"Cosmic rays in galaxy clusters and their interplay with magnetic fields"

9:45 – 10:15 Alexander Beck

"How do magnetic fields and galaxy formation connect?"

10:15 – 10:35 Marek Urbanik

"Recent results on intergalactic magnetic fields"

10:35 – 10:55 Błażej Nikiel-Wroczyński

"Multifrequency analysis of the magnetic field in HCG92 and Arp 143"

10:55 - 11:25 COFFEE BREAK

Part2 → **Chair: Marek Urbanik**

11:25 – 12:10 Dongsu Ryu

"Magnetic fields in the cosmic web"

12:10 – 12:30 Therese Cantwell

"Diffuse Radio Emission in Low Surface Brightness Galaxy Clusters"

12:30 – 12:50 Ancor Damas Segovia

"Effects of the IGM on the magnetic field of galaxies"

12:50 – 13:10 Motokazu Takizawa

"Particle acceleration processes in galaxy cluster radio relics investigated through X-ray and radio observations"

13:10 - 13:40 DISCUSSION

13:40 - 14:40 LUNCH

15:00 - 19:00 TRIP

19:00 - CONFERENCE DINNER

Session 6: Observations of magnetic fields: novel methods and future prospects Chair: Krzysztof Chyży

9:00 – 9:30 Rainer Beck

"Observing cosmic magnetism with the SKA"

9:30 – 10:00 Jean-Philippe Bernard

"The All-sky Thermal Dust Polarization as Observed with Planck"

10:00 - 10:30 COFFEE BREAK

10:30 – 10:50 Chi Thiem Hoang

"A novel method for measuring interstellar magnetic fields using UV polarimetry"

10:50 - 11:20 **DISCUSSION**

11:20 – 12:05 Uli Klein

SUMMARY

12:05 – 13:05 LUNCH

THE END