

MAGNETIC FIELDS IN THE UNIVERSE V - Cargèse, Corse, France, 5-9 October 2015

Monday 5 October			
08h30-08h40	<i>Welcome</i>		
08h40-10h25	Session 1 : MHD Turbulence <i>Chair: C. McKee</i>		
	Topics in MHD turbulence	A. Beresnyak	I
	Self-gravitating Magnetoturbulence	A. Kritsuk	I
	Spatial gradients of polarization vector	B. Burkhart	I
	Studies of the ISM magnetic field from anisotropies in synthetic PPV cubes	A. Esquivel	Is
10h25-10h55	<i>Coffee and Poster Session</i>		
10h55-11h55	Session 2 : Turbulence in protoplanetary disks <i>Chair: J. Franco</i>		
	Magneto-rotational instability in protoplanetary disks	S. Balbus	I
	Formation of proto-multiple systems in a magnetized, fragmenting filament	C. Hull	C
	Magnetic Fields in Protostellar Disks: Current Status and the Upcoming ALMA Revolution	R. Rao	C
11h55-12h05	Poster Presentation 1 : Ntormousi, Takamoto, Xu, Hanasz		
12h05-15h00	<i>Lunch</i>		
15h00-16h30	Session 3 : Non-ideal turbulence <i>Chair: D. Falceta-Gonçalves</i>		
	Dissipation and intermittency in the magnetized ISM	P. Lesaffre	I
	Energy dissipation in incompressible turbulence with ambipolar diffusion	G. Momferratos	C
	Coupling PIC and MHD approaches	A. Marcowith	I
	Magnetic Field in the Outer Heliosphere and Beyond	N. Pogorelov	C
16h30-16h40	Poster Presentation 2 : Williams, Khiali, Sobey, Seta		
16h40-17h10	<i>Coffee and Poster Session</i>		
17h10-18h10	Session 4 : Plasma Turbulence <i>Chair: B. Gaensler</i>		
	Observations of solar wind turbulence	O. Alexandrova	I
	Magnetic plasma turbulence: where theory meets observations	S. Boldyrev	I
18h10-18h50	Discussion 1 : The different kinds of magnetized turbulence	Chair : A. Lazarian	
19h00	<i>Welcome drink</i>		
Tuesday 6 October			
08h30-10h00	Session 1 : Reconnection I <i>Chair: E. Dormy</i>		
	Fast Magnetic Reconnection in Astrophysical and Laboratory Plasmas	A. Bhattacharjee	I
	Magnetic Reconnection: experiments and theory	H. Ji	I
	Numerical simulations of magnetic reconnection in solar wind : collisional vs collisionless regime.	G. Kowal	C
	Laboratory astrophysics with magnetized laser plasmas	A. Ciardi	C
10h00-10h10	Poster Presentation 3 : Nowak, Hill, Rajpurohit, Terral		
10h10-10h40	<i>Coffee and Poster Session</i>		
10h40-12h10	Session 2 : Reconnection II - Acceleration of relativistic particles <i>Chair: G. Farrar</i>		
	Reconnection in non-relativistic and relativistic turbulent astrophysical media	A. Lazarian	I
	Particle Acceleration by Magnetic Reconnection	E. de Gouveia Dal Pino	I
	Particle acceleration in relativistic magnetized shocks and reconnection	L. Sironi	I
12h10-12h20	Poster Presentation 4 : Maury, Girart (I), Fissel, Cortes		
12h20-15h00	<i>Lunch</i>		
15h00-16h30	Session 3 : Dynamo I <i>Chair : K. Ferrière</i>		
	The VKS experiment and theory of magnetic field reversals	F. Petrelis	I
	Magnetic fluid-structure Dynamo	Y. Ponty	C
	Dynamos in stars	E. Dormy	I
	Generation and Saturation of Magnetic Fields in Turbulent and Multiphase ISM Regulated by Star-formation feedback	C. Kim	C
16h30-16h40	Poster Presentation 5 : Hoq, Bracco, Montgomery, Cashman		
16h40-17h10	<i>Coffee and Poster Session</i>		
17h10-17h55	Session 4 : Dynamo II <i>Chair: F. Petrelis</i>		
	Turbulent Dynamos	E. Vishniac	I
	Can we observationally test the Dynamo model ?	J. Farnes	C
17h55-18h35	Discussion 2 : Reconnection, dynamo and acceleration of relativistic particles	Chair : H Ji	
Wednesday 7 October			
08h30-10h15	Session 1 : Polarization / Star Formation I <i>Chair: B. Burkhart</i>		
	Zeeman measurements of the Magnetic Fields in star forming regions	R. Crutcher	I
	Magnetic fields in the turbulent ISM: simulations face observations	C. McKee	I
	Polarization maps (Zeeman and dust emission) from MHD simulations	D. Falceta-Goncalvez	I
	Dust Polarization in the Infrared Dark Cloud G34.43	Y. Tang	C

10h15-10h45	<i>Coffee and Poster Session</i>		
10h45-12h00	Session 2 : Polarization / Star Formation II Chair: A. Maury		
	The link between magnetic fields and cloud and star formation	H.-B. Li	I
	Polarized dust emission in massive star forming regions	Q. Zhang	I
	The Importance of the Magnetic Field from an SMA-CSO-Combined Sample of Star-Forming Regions	P. Koch	C
12h00-12h10	Poster Presentation 6 : Kothes, Girart (II), Rangaswamy, Vansyngel		
12h10-12h30	<i>Poster Session</i>		
	<i>Free afternoon</i>		
	<i>Conference dinner</i>		
Thursday 8 October			
08h30-10h30	Session 1 : Galactic Field and Faraday Sky Chair: R. Beck		
	Magnetic fields in the Galactic halo	K. Ferrière	I
	A model of the Galactic magnetic field	G. Farrar	C
	The Global Magneto-Ionic Medium Survey (GMIMS) : unveiling the Galactic magnetic field	E. Carretti	C
	The Galactic Plane Infrared Polarization Survey (GPIPS)	D. Clemens	C
	The Faraday sky	N. Oppermann	I
	Filamentary structures in LOFAR observations of the interstellar medium	V. Jelic	C
10h30-11h	<i>Coffee and Poster Session</i>		
11h00-12h30	Session 2 : External galaxies Chair: T. Troland		
	Magnetic fields in external galaxies	M. Krause	I
	Polarized dust emission in the LMC/SMC	A. Hughes	I
	Magnetised wind and synchrotron halo of IC10	K. Chyzy	C
	Effects of the ICM on the magnetic field of a Virgo galaxy	A. Damas	C
12h30-15h00	<i>Lunch</i>		
15h00-16h15	Session 3 : Galaxy Clusters I Chair: E. de Gouveia Dal Pino		
	Cosmic rays in clusters of galaxies : relativistic particle acceleration	G. Brunetti	I
	Collisionless MHD turbulence in the inter-galactic medium	R. Santos-Lima	I
	Clusters, radio haloes, and the evolution of the ICM magnetic field	V. Cuciti	C
16h15-16h45	<i>Coffee and Poster Session</i>		
16h45-17h45	Session 4 : Galaxy Clusters II Chair: S. Balbus		
	Magnetic fields in galaxy clusters: cosmological MHD simulations	K. Dolag	I
	Cluster magnetic fields as revealed by diffuse radio emission	L. Rudnick	I
17h45-18h30	Discussion 3 : Magnetic fields in star forming regions, galaxies and galaxy clusters: their connexion?	Chair : R. Crutcher	
Friday 9 October			
08h30-10h15	Session 1 : Polarization /ISM (processes/observations/simulations) I Chair: D. Clemens		
	Dust grain alignment by radiative torques	T. Hoang	I
	Magnetic field structure from Planck polarization observations of the diffuse Galactic ISM	F. Boulanger	I
	Statistical properties of polarized dust emission : lessons from a model of the turbulent and magnetized ISM	F. Levrier	C
	Probing the role of the magnetic field in the formation of structure in molecular clouds using Planck	J. D. Soler	C
	A New Multiscale Analysis of the Gradient of Linear Polarisation	J.-F. Robitaille	C
10h15-11h15	<i>Coffee and Poster Session</i>		
11h15-12h30	Session 2 : Polarization /ISM (processes/observations/simulations) II Chair: J. M. Girart		
	Magnetically Aligned HI and Dust: Measuring B-mode Polarization Foregrounds with Neutral Hydrogen	S. Clark	C
	Statistical properties of the polarized emission of Planck Galactic cold clumps	I. Ristorcelli	C
	E- and B-modes from the magnetized filamentary structure of the interstellar medium	T. Ghosh	C
	Magnetic fields and massive stellar feedback	M. Alves	C
	Magnetic fields in the periphery of GMCs	T. Troland	C
12h30-14h30	<i>Lunch</i>		
14h30-15h00	Session 3 : Primordial magnetic fields Chair: K. Dolag		
	The Planck constraints on the primordial magnetic fields	D. Paoletti	I
15h00-16h45	Session 4 : Observational and Instrumental prospective Chair: C. Hull		
	Non-Zeeman Circular Polarization of Molecular Spectral Lines in the ISM	M. Houde	C
	Prospects for CTA	H. Sol	I
	The LOFAR Multifrequency Snapshot Sky Survey	G. Heald	I
	Polarimetry with the SKA	B. Gaensler	I
16h45-17h15	<i>Coffee and Poster Session</i>		
17h15-18h00	Discussion 4 : Instrumental needs and perspectives	Chairs : The SOC	
18h00-18h15	Closing remarks	TBD	