

## Midwest Magnetic Fields Conference 2018

May 30th (Day one)				May 31st (Day two)			
Time	Speaker	Talk Title	Session Chair	Time	Speaker	Talk Title	Session Chair
8:00-8:25	Cary Forest (University of Wisconsin-Madison)	Magnetized plasma experiment in Madison	Nikolai Pogorelov	8:00-8:25	John Raymond (CfA - Harvard University)	Growing Turbulence in a Post-Shock Cooling Flow	Laura Fissel
8:25-8:50	Alexey Kritsuk (U. of California-San Diego)	Dust-polarization maps for local interstellar turbulence		8:25-8:50	Mateusz Ruszkowski (University of Michigan)	Impact of super-Alfvénic streaming on cosmic ray driven galactic winds	
8:50-9:15	Richard Crutcher (University of Illinois)	Magnetic Fields and Star Formation		8:50-9:15	Sebastian Heinz (University of Wisconsin-Madison)	Shock-filament interactions in magnetized flows	
9:15-9:40	Alex Lazarian (University of Wisconsin-Madison)	Gradient Technique: Opening new horizons for magnetic field studies in ISM		9:15-9:40	Hui Li (Los Alamos National Laboratory)	Particle Energization in Different Turbulent Environments	
9:40-9:50	Diego Gonzalez-Casanova (University of Wisconsin-Madison)	3D mapping of galactic magnetic field with velocity gradients		9:40-10:05	<b>Break &amp; Posters</b>		
9:50-10:20	<b>Break &amp; Posters</b>			10:05-10:30	Greg Eyink (Johns Hopkins University )	Turbulence and Reconnection in Magnetized Collisionless Plasmas	Cary Forest
10:20-10:45	Laura Fissel (NRAO)	The Relationship between Molecular Cloud Structure and the Magnetic Field: A BLASTPol Study of Vela C	Siyao Xu	10:30-10:55	Siyao Xu (University of Wisconsin-Madison)	MHD turbulence model for studying the density structures in the ISM	
10:45-10:55	Ka Ho Yuen (University of Wisconsin-Madison)	Surveys of galactic magnetic fields with velocity and synchrotron gradients		10:55-11:20	Ethan Vishniac (Johns Hopkins University)	Magnetic Helicity and Stellar Dynamos	
10:55-11:02	Victor Lazarian (University of Wisconsin-Madison)	Sonic Mach number from velocity gradients		11:20-11:30	Philip Grete (Michigan State University)	Systematic biases in idealized turbulence simulations	
11:02-11:10	Ho Ka Wai (University of Hong Kong)	Media magnetization from velocity gradients		11:30-11:40	Amir Jafari (Johns Hopkins University)	Reconnection for Large Prandtl Numbers	
11:10-11:35	B-G Andersson (SOFIA Science Center)	Of Grains and Radiation		11:40-12:05	Nikolai Pogorelov (The University of Alabama in Huntsville)	Time-dependent Heliosphere	
11:35-12:00	Terry Jones (University of Minnesota)	Interpreting mm-submm imaging polarimetry of Class 0 YSOs		12:05-13:05	<b>Lunch</b>		
12:00-13:00	<b>Lunch</b>			13:05-13:30	Andrey Beresnyak (Naval Research Laboratory)	Turbulence driven by reconnection in Hall-MHD plasma.	Martin Houde
13:00-13:10	<b>SOFIA info</b>	B-G Andersson (SOFIA Science Center)	Richard Crutcher	13:30-13:40	Paolo Desiati (WIPAC, UW-Madison)	TeV Cosmic Ray Anisotropy Observations with IceCube & HAWC?	
13:10-13:35	Johannes Staguhn (Goddard Space Flight Center - NASA)	Far Infrared Polarimetry with HAWC+ on SOFIA and Beyond		13:40-13:50	Vanessa Lopez-Barquero (University of Wisconsin-Madison)	Chaotic behavior of cosmic rays trapped in magnetic bottle systems.	
13:35-14:00	Giles Novak (Northwestern University)	Results from HAWC+: far-IR polarization of Rho Oph A at 89 and 155 microns		13:50-14:00	Alecio Madrid (University of Wisconsin-Madison)	The Alfvénic environments of 10 Giant Molecular Clouds	
14:00-14:25	Thomas Troland (University of Kentucky)	The Current Status of Zeeman Effect Observations in Diffuse and Molecular Gas in the Galaxy		14:00-14:25	Norm Murray (CITA Canada)	The dynamics of massive star formation	
14:25-14:50	Martin Houde (Western University, Canada)	Non-Zeeman Circular Polarization Measurements for the Study of Magnetic Fields		14:25-14:55	<b>Break &amp; Posters</b>		
14:50-15:20	<b>Break &amp; Posters</b>			14:55-15:20	Alexander Tchekhovskoy (Northwestern University)	Black hole disks, jets, and outflows	Norm Murray
15:20-15:45	Priscilla Frisch (University of Chicago)	Mapping the Local Interstellar Magnetic Field	Ethan Vishniac	15:20-15:50	<b>Discussion</b>	Turbulence and Reconnection (Ethan Vishniac)	
15:45-16:10	Alejandro Esquivel (UNAM Mexico)	Studying the magnetic ISM with velocity anisotropies		15:50-16:15	Dinshaw Balsara (University of Notre Dame)	Geodesic Mesh MHD, A New Paradigm for Computational Astrophysics Applied to Spherical Systems	
16:10-16:40	<b>Discussion</b>	Studying Astrophysical magnetic fields (Richard Crutcher)		16:15-16:25	Ken Gayley (University of Iowa)	Stokes V Diagnostics of Toroidal Fields in Spiral Galaxies	
16:40-17:05	Farhad Yusef-Zadeh (Northwestern University)	The Interaction of Cosmic Rays with Molecular Clouds in the Galactic Center Region		16:25-16:35	Mohammed Chamma (University of Western Ontario)	Non-Zeeman Circular Polarization of Molecular Spectral Lines in the ISM	