Monday 5/15			
Morning Chair: Chris Hammel	**Speaker**	**Title**	
9:00-9:15 am	Organizer	Introduction to the workshop	
9:15-9:30 am	CEM director (Chris Hammel)	Introduction to CEM, an NSF MRSEC at OSU	
9:30-10:15 am	Paul McClarty	Topological magnons	
10:15-10:30 am	Discussion		
10:30-11:00 am	Coffee Break		
11:00-11:45 pm	Yong Baek Kim	Quantum spin ice - introduction and current status	
11:45-12:00 pm	Discussion		
12:00-1:30 pm	Lunch		
Afternoon Chair: Zach Addison			
1:30-2:15 pm	Jeffey Rau	An introduction to Kitaev physics	
2:15-2:30 pm	Discussion		
2:30-3:00 pm	Coffee Break		
3:00-3:45 pm	Peter Armitage	Thoughts on measuring properties of fractionalized quasiparticles	
3:45:4:00 pm	Discussion		
4:00-5:30 pm	Poster Discussion	Poster # 1-12	
Tuesday 5/16			
Morning Chair: Joshua Goldberger	**Speaker**	**Title**	
9:00-9:30 am	Fahad Mahmood	Floquet-Bloch manipulation of the axion angle in the antiferromagnetic topological insulator MnBi2Te4	
9:30-9:45 am	Discussion		
9:45-10:15 am	Tyrel McQueen	Interplay of Fractional Excitations and Novel Physics with Materials Realities	
10:15-10:30 am	Discussion		
10:30-11:00 am	Coffee		
11:00-11:30 am	David Mandrus	Progress in Understanding the Charge Density Wave in Kagome Intermetallic ScV6Sn6	
11:30-11:45 am	Discussion		
11:45-1:30 pm	Lunch		
Afternoon Chair: Xu Yang			
1:30-2:00 pm	Sara Haravifard	Discovery of Field-Induced Spin Superstructures in Quantum Materials	
2:00-2:15 pm	Discussion		
2:15-2:45 pm	Martin Mourigal	Unusual magnetic excitations of product-state spin systems	
2:45-3:00 pm	Discussion		
3:300-3:30 pm	Coffee		
3:30-4:00 pm	Stephen Wilson	Quantum Disorder in J=1/2 Triangular Lattice Compounds	
4:00-4:15 pm	Discussion		
4:15pm-5:30 pm	Poster Discussion	Poster # 7-18	
Wednesday 5/17			
Morning Chair: Joseph Heremans	**Speaker**	**Title**	
9:00-9:30 am	Hae Young Kee	Multipolar Orders and Multipolar Liquids	
9:30-9:45 am	Discussion		
9:45-10:15 am	Hide Takagi	Thermal transport of magnetic excitations in quantum spin liquids	
10:15-10:30 am	Discussion		
10:30-11:00 am	Coffee		
11:00-11:30 am	N. P. Ong	Planar Thermal Hall and Oscillations of thermal conductivity in a-RuCl3	
11:30-11:45 am	Discussion		
11:45-1:30 pm	Lunch		
Afternoon Chair: Kyle Kawagoe			
1:30-2:00 pm	Natalia Perkins	Disorder in the Kitaev spin liquid	
2:00-2:15 pm	Discussion		
2:15-2:45 pm	Andreas Lauchli	Modelling and Understanding Strongly Fluctuating Quantum Magnets	
2:45-3:00 pm	Discussion		
3:300-3:30 pm	Coffee		
3:30-4:00 pm	Itamar Kimchi	Disorder and entanglement in magnetic quantum materials	
4:00-4:15 pm	Discussion		
4:15pm-5:30 pm	Poster Discussion	Poster # 13-24	
Thursday 5/18			
Morning Chair: Brian Skinner	**Speaker**	**Title**	
9:00-9:30 am	Yu Pan	Thermoelectric properties of topological materials	
9:30-9:45 am	Discussion		
9:45-10:15 am	Josh Goldberger	Design and Synthesis of Solid-state Materials with Topological Fermi Surfaces and Magnetism	
10:15-10:30 am	Discussion		
10:30-11:00 am	Coffee		
11:00-11:30 am	Colin Broholm	Monopolar and dipolar relaxation in spin ice Ho2Ti2O7	
11:30-11:45 am	Discussion		
11:45-1:30 pm	Lunch		
Afternoon Chair: Aaron Hui			
1:30-2:00 pm	Benedetta Flebus	The non-Hermitian skin effect in magnetic systems	
2:00-2:15 pm	Discussion		

2:15-2:45 pm	Johaness Knolle	An exact chiral amorphous spin liquid	
2:45-3:00 pm	Discussion		
3:300-3:30 pm	Coffee		
3:30-4:00 pm	Arun Paramekanti	Probing hidden octupolar order via Janus impurities	
4:00-4:15 pm	Discussion		
4:15pm-5:30 pm	Poster Discussion	Poster # 19-33	
Friday 5/19			
Morning Chair: Rolando Valdes Aguilar	**Speaker**	**Title**	
9:00-9:30 am	Linda Ye	Flat bands in kagome lattice metals	
9:30-9:45 am	Discussion		
9:45-10:15 am	Pengcheng Dai	Electronic liquid crystal state in a kagome lattice antiferromagnet	
10:15-10:30 am	Discussion		
10:30-11:00 am	Coffee		
11:00-11:30 am	James Analytis	How to rotate the Hall angle in a correlated magnet	
11:30-11:45 am	Discussion		
11:45-1:30 pm	Lunch		
Afternoon Chair: Penghao Zhu			
1:30-2:00 pm	Judit Romanyi	Triplet band topology in KCuCl3	
2:00-2:15 pm	Discussion		
2:15-2:45 pm	Stephen Nagler	New tricks from old dogs: the S=1/2 Heisenberg antiferromagnetic chain	
2:45-3:00 pm	Discussion		
3:300-3:30 pm	Coffee		
3:30-4:00 pm	Yue Sun (Orenstein group)	Tracking Magnon Propagation with Space/Time Resolved Polarimetry	
4:00-4:15 pm	Discussion		
4:15pm-5:30 pm	Poster Discussion	Poster # 25-33, 1-6	
Saturday 5/20			
Morning Chair: Yuan-Ming Lu	**Speaker**	**Title**	
9:00-9:30 am	Liuyan Zhao	Extraordinary and Surface Phase Transitions in a van der Waals Layered Antiferromagnet	
9:30-9:45 am	Discussion		
9:45-10:15 am	Ken Burch	Axial Higgs Mode from Quantum Geometry and a Charge Density Wave	
10:15-10:30 am	Discussion		
10:30-11:00 am	Coffee		
11:00-11:30 am	Francesco Ferrari (Valenti group)	Modeling frustrated magnets: the case of NaRuO2 and Y-kapellasite	
11:30-11:45 am	Discussion		
End of Workshop			

Poster #	Presenter	Title
1	Jun Takahashi	Dzyaloshinskii transition in an effective model for chiral valence-bond phase
2	Eli Zoghlin	Refined spin wave model and multi-magnon bound states in Li2CuO2
3	Harshad Gajapathy	Spin Polarized Electron Dynamics in Yttrium iron Garnet: New Platform for Spin Selective Photocatalysis
4	Hana Schiff	Spin groups for weak spin-orbit coupling materials
5	Shuyu Cheng	Molecular Beam Epitaxy Growth and Angle-Resolved Photoemission Spectroscopy Study of Kagome Magnet Thin Films
6	Sami Hakani	Topological Defects in a Response Theory
7	Ryan Bailey-Crandell	Exchange bias in Cr0.45Pt0.55Te2, a van der Waals magnetic alloy with modulated concentration
8	Xu Yang	An efficient material search for room-temperature topological magnons
9	Igor Lyalin	Magneto-Optical Detection of the Orbital Hall Effect in Chromium
10	Mohamed Nawwar	Observing thermal Hall in MnPS3
11	Xin Li	A solid-state platform for cooperative quantum phenomena
12	Jiamin Wen	Ultrahigh Anomalous Nernst Effect and Thermal Hall Effect Signals in the Antiferromagnet YbMnBi2 in the Spin Canting Direction
13	Ramesh Dhakal	Disorder-enriched magnetic excitations in the Kitaev quantum spin liquid candidate Na2Co2TeO6
14	Shi Feng	Anyon response in field-induced quantum spin liquids
15	Bhandia Rishi	Nonlinear THz Spectroscopy of Cd3As2
16	Muhammad Akram	Emergent phases in Kitaev spin-orbital bilayers and moiré superlattices
17	Shuangyuan Lu	Detecting symmetry fractionalization in gapped quantum spin liquids by magnetic impurities
18	Yufei Li	Ring-Exchange Interaction Effects on Magnons in Dirac Magnet CoTiO3
19	Wenyi Zhou	Tuning the Curie temperature of a 2D magnet/topological insulator heterostructure to above room temperature by epitaxial growth
20	Zachariah Addison	Theory of Topological Electric and Thermoelectric Transport in Skyrmion Materials
21	Vincent Morano	Emergence of simple cubic antiferromagnetism from Eu2+/Eu3+ charge order in double Dirac candidate EuPd3S4
22	Nina Bielinski	Floquet-Bloch manipulation of the axion angle of the antiferromagnetic topological insulator MnBi2Te4
23	Subhankar Khatua	Pseudo-Goldstone modes and dynamical gap generation from order-by-thermal-disorder
24	Ziling Li	Direct Time- and Momentum-Resolved Imaging of Exciton Dynamics in TMD Monolayer and Heterobilayers
25	Abdallah AlShafey	Ultrafast laser-driven dynamics in metal-insulator interface model
26	Sreekar Voleti	Multipolar Order in the 5d2 Osmates
27	Kelly Powderly	Metastable beta-NdCo2B2: a Triclinic Polymorph with Magnetic Ordering
28	Emma Pappas	Metallic and semiconducting behavior in gold antimony tellurides
29	P. Peter Stavropoulos	Phonon Dynamics in the Generalized Kitaev Spin Liquid
30	Harry Lane	Spin-orbital correlations from complex orbital order in MgV2O4
31	Juyeon Won	Transport and optical properties of the chiral Ag3AuSe2
32	Ruairidh Sutcliffe	Thermal Conductivity of Square Ice

33	Arnab Sen	Probing signatures of spin-fractionalization in quantum spin liquids via magnetoelastic coupling