**Tuesday, June 21, 2022**

**8:00-8:30 Breakfast at TSRC meeting site.**

**Opening Remarks (8:30-8:40)**

**Kitaev Materials (8:40-10:10)**

Chair: Mike Norman

8:40-9:10 Gabor Halasz: Thermal anyon interferometry in phonon-coupled Kitaev spin liquids

9:10-9:40 Hidenori Takagi: Magneto-thermal transport in a quantum spin liquid

9:40-10:10 Alberto de la Torre: Resonant x-ray studies in new generation Kitaev honeycomb iridates

**10:10-10:40 Coffee Break**

**Kagome and Honeycomb Systems (10:40-12:10)**

Chair: Julia Mundy

10:40-11:10 Xianglin Ke: Anomalous Thermal Hall Effect in an Insulating van der Waals Magnet

11:10-11:40 Rebecca Dally: Neutron scattering studies on magnetic Kagome metals

11:40-12:10 Alannah Hallas: Quantum criticality and dynamical scaling in a Mn-based kagome metal

**6:30-7:15 TSRC Town Talk**

**Wednesday, June 22, 2022**

**8:00-8:30 Breakfast at TSRC meeting site.**

**Topological Oxides and Novel Excitations (8:30-10:00)**

Chair: Rebecca Dally

8:30-9:00 Sang Cheong: Magnetic chirality

9:00-9:30 Ho Nyung Lee: Correlated Oxide Dirac Semimetals in the Extreme Quantum Limit

9:30-10:00 Andrew Christianson: Longitudinal Magnon Decay and Renormalization in Ba2FeSi2O7

**10:00-10:30 Coffee Break**

**Novel Superconductivity and Ferroelectrics I (10:30-12:00)**

Chair: Andy Christianson

10:30-11:00 Martin Greven: Structural inhomogeneity in oxide superconductors

11:00-11:30 Anand Bhattacharya: Tunable interfacial superconductivity of KTaO3 and its origin

11:30-12:00 Maria Gastiasoro: Superconductivity mediated by soft ferroelectric modes

**6:00-8:00 TSRC Picnic (TBD)**

**Thursday, June 23, 2022**

**8:00-8:30 Breakfast at TSRC meeting site.**

**Frustrated Materials and Pyrochlores I (8:30-10:00)**

Chair: Alannah Hallas

8:30-9:00 Arthur Ramirez: Eminuscent phase in frustrated magnets: A challenge to quantum spin liquids

9:00-9:30 Alan Tennant: Spin glassiness and monopole dynamics in spin ices

9:30-10:00 Clarina dela Cruz: Optimizing towards the ideal Weyl Hydrogen atom in EuCd2As2 via frustration

**10:00-10:30 Coffee Break**

**Frustrated Materials and Pyrochlores II (10:30-12:00)**

Chair: John Mitchell

10:30-11:00 Mike Norman: Local structure and implications for the relaxor ferroelectric 4d0 Cd2Nb2O7

11:00-11:30 Stuart Calder: Susceptibility tensor, symmetry lowering and magnetism in 5d1 Ba2NaOsO6 probed with Polarized Neutron Diffraction

11:30-12:00 Raymond Osborn: Machine Learning Analysis of Structural Order and Fluctuations in 5d2 Cd2Re2O7

**7:00 – No Host Workshop Dinner (Rustico)**

**Friday, June 24, 2022**

**8:00-8:30 Breakfast at TSRC meeting site.**

**Novel Superconductivity and Ferroelectrics II (8:30-10:00)**

Chair: Marisa Medarde

8:30-9:00 Tyrel McQueen: Experimental Machine Learning Approaches to Materials Discovery

9:00-9:30 Haidan Wen: An ultrafast view of topological ferroelectric nanostructures

9:30-10:00 Rafael Fernandes: Dislocation-induced time-reversal symmetry-breaking in the superconducting state of Sr2RuO4

**10:00-10:30 Coffee Break**

**Perovskite and Infinite Layer Nickelates (10:30-12:00)**

Chair: Tyrel McQueen

10:30-11:00 Marisa Medarde: Are bulk RENiO3 nickelates ferroelectric?

11:00-11:30 Ariando: Lanthanide Infinite-Layer Nickelate Superconductors

11:30-12:00 Berit Goodge:  Probing the atomic and electronic structure of nickelates with scanning transmission electron microscopy

**7:30 – 9:00 Evening Discussion (Topic TBD)**

**Saturday, June 25, 2022**

**8:00-8:30 Breakfast at TSRC meeting site.**

**Low-Valent and Multilayer Nickelates (8:30-9:30)**

Chair: Clarina dela Cruz

8:30-9:00 Frank Lechermann: Multiorbital perspective on correlated electrons in low valence nickelates

9:00-9:30 Julia Mundy: Superconductivity in layered square planar nickelates

**9:30-10:00 Coffee Break**

**Low-Valent and Multilayer Nickelates (continued) (10:00-11:00)**

Chair: Ray Osborn

10:00-10:30 Dan Dessau: ARPES studies of layered nickelates

10:30-11:00 John Mitchell: Metals and Stripes in Nickelates: A Meeting in the Middle

**Workshop Wrap Up (11:00-11:15)**

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**Workshop Organizers TSRC Host**

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