

## SUNDAY, APRIL 10TH

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14:30 OPENING

15:00 | **Roser Valentí** | *The honeycomb RuX<sub>3</sub> (X=Cl, Br, I) family: Two siblings - and a cousin? Kitaev and Mott at its best*

15:30 | **Emanuel Gull** | *Let's get real – Adapting the toolkit of many-body theory to realistic materials simulation*

16:00 COFFEE BREAK

16:45 | **Lucile Savary** | *Thermal Conductivity and Theory of Inelastic Scattering of Phonons by Collective Fluctuations*

17:15 | **Jernej Mravlje** | *Spin and thermal transport in Hubbard model*

17:45 | **Sergio Ciuchi** | *Bad metal from the interaction with slow fluctuations*

## MONDAY, APRIL 11TH

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9:00 | **Massimo Capone** | *Competing Correlated Insulators in multi-orbital systems coupled to phonons*

9:30 | **Jan Tomczak** | *Phenomenology of transport in semiconductors and resistivity saturation in Kondo insulators*

10:00 | **Tim Wehling** | *From materials to models: downfolding in systems with Coulomb and electron-lattice interactions*

10:30 COFFEE BREAK

11:15 | **Carmine Ortix** | *Designing dipoles of Berry curvature at oxide interfaces*

11:45 | **Wojciech Brzezicki** | *Berry phase effects in the layered topological metals*

12:15 | **Jeroen van den Brink** | *How surfaces Berry-curve Bloch-electrons*

13:00 LUNCH

14:30 | **Thomas Schäfer** | *Multimethod multimessenger approaches to strong correlations - from models to materials*

15:00 | **Michel Ferrero** | *Diagrammatic Monte Carlo and the 2d Hubbard model: spin and charge response*

15:30 | **Fedor Šimkovic** | *Diagrammatic Monte Carlo and the 2d Hubbard model: spectral properties and the pseudogap*

16:00 COFFEE BREAK

16:45 | **Friedrich Krien** | *Paramagnon scattering and pseudogaps from weak to strong coupling*

17:15 | **Anna Kauch** |  *$\pi$ -ton contributions to optical conductivity in correlated electron systems*

## TUESDAY, APRIL 12th

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9:00 | **Karsten Held** | *Superconductivity in the nickel age*

9:30 | **Philipp Hansmann** | *Inter-orbital singlet pairing in Sr<sub>2</sub>RuO<sub>4</sub>: a Hund's superconductor*

10:00 | **Erez Berg** | *Exotic superconductivity in graphene multilayers.*

10:30 COFFEE BREAK

11:15 | **Brian Andersen** | *Unusual superconducting instabilities in multi-orbital strongly-correlated materials*

11:45 | **Leon Balents** | *Symmetry breaking orders in Kagome metals*

12:15 OPEN DISCUSSION

13:00 LUNCH

15:00 EXCURSION

## WEDNESDAY, APRIL 13th

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9:00 | **Markus Aichhorn** | *Magnetism and Spin-Orbit Coupling in Double Perovskite Oxides*

9:30 | **Filomena Forte** | *Orbital mechanisms for novel phases in spin-orbit coupled Mott system*

10:00 | **Maria Chatzieftheriou** | *Mott Quantum Critical Points at finite doping*

10:30 COFFEE BREAK

11:15 | **Martin Eckstein** | *Ultrafast dynamics of symmetry-broken states: From mean-field theory to a microscopic description of inhomogeneous disorder*

11:45 | **Michael Knap** | *Hole spectral function of a chiral spin liquid in the triangular lattice Hubbard model*

12:15 OPEN DISCUSSION

13:00 LUNCH

14:30 | **Fabian Kugler** | *Four-point functions on the real-frequency axis*

15:00 | **Patrick Chalupa** | *The non-perturbative feats of electronic correlations: a two-particle perspective*

15:30 | **Domenico Di Sante** | *Deep Learning the Functional Renormalization Group Flow for Correlated Fermions*

16:00 COFFEE BREAK

16:30 | **Georg Rohringer** | *Fluctuations analysis of spin susceptibility: Néel ordering revisited in dynamical mean field theory*

17:00 | **Luca de' Medici** | *Néel antiferromagnetism and its phase separation in multi-orbital Hubbard models*

17:30 CLOSING REMARKS