

QUAST International Conference, Sept. 10th – 12th, 2024

25 minutes talks + 10 minutes for questions

Tuesday, Sept. 10th, 2024

8:45 – 9:00	Welcome: Andy Mackenzie and organizers
<i>Chair: Dieter Vollhardt</i>	
09:00 – 09:35	Achim Rosch (University of Cologne) Active Magnetic Matter: Propelling Ferrimagnetic Domain Walls by Dynamical Frustration
09:35 – 10:10	Qimiao Si (Rice University) Strange metals and how to use them for topology and entanglement
10:10 – 10:50	<i>Coffee break</i>
10:50 – 11:25	Malte Rösner (Radboud University) NB3X8: A new class of prototypical layered Mott insulators formed on perturbed Kagome lattices
11:25 – 12:00	Elena Gati (MPI-CPfS Dresden) Strain control of frustration in frustrated Mott insulators
12:00 – 13:30	Lunch break
13:30 – 14:30	Informal discussion
<i>Chair: Roser Valentí</i>	
14:30 – 15:05	Jan von Delft (LMU Munich) Dynamical scaling and Planckian dissipation due to heavy-fermion quantum criticality
15:05 – 15:40	Dante Kennes (RWTH Aachen) Moiré heterostructures: a condensed matter quantum simulator
15:40 – 16:20	<i>Coffee break</i>
16:20 – 16:55	Cecile Repellin (CNRS, Grenoble) Fractional Chern insulators in moiré materials
16:55 – 17:30	Nurit Avraham (Weizmann Institute of Science) Visualizing correlated states in Rhombohedral Trilayer Graphene
17:30 – 18:30	<i>Poster flash talks, moderator: Titus Neupert (Universität Zürich)</i>
18:30 – 19:30	Dinner
19:30 – 21:30	Poster session

Wednesday, Sept. 11th, 2024

<i>Chair: Tim Wehling</i>	
09:00 – 09:35	Kristjan Haule (Rutgers University) High-Throughput Embedded Dynamical Mean Field Theory Search for Altermagnets
09:35 – 10:10	Emanuel Gull (University of Michigan) From mathematical aspects of response functions to efficient numerical algorithms
10:10 – 10:50	<i>Coffee break</i>
10:50 – 11:25	Dimitry Efetov (LMU Munich) Thermodynamic probes of correlated states in twisted bilayer graphene
11:25 – 12:00	Anna Keselman (Israel Institute of Technology) Spectral signatures of trions and trion liquids
12:00 – 13:30	Lunch break
13:30 – 14:30	Informal discussion + group photo
<i>Chair: Martin Eckstein</i>	
14:30 – 15:05	Isabella Gierz (Regensburg University) Ultrafast electron dynamics viewed through trARPES eyes
15:05 – 15:40	Mark Golden (University of Amsterdam) Momentum dependent scaling exponents of cuprate strange-metal self energies: ARPES meets semi-holography
15:40 – 16:20	<i>Coffee break</i>
16:20 – 16:55	Andrei Bernevig (Princeton University) Flat Bands, Heavy Fermions VS Landau Levels
16:55 – 17:30	Eun-Ah Kim (Cornell University) TBA
18:30 – 20:00	Banquet
20:00 – 21:30	Poster session

Thursday, Sept. 12th, 2024

<i>Chair: Karsten Held</i>	
09:00 – 09:35	Silke Biermann (CPfT, École Polytechnique Paris) Hund's Exchange in Electrochemistry: Electronic Properties of Battery Materials from a Dynamical Mean Field Perspective
09:35 – 10:10	Ryotaro Arita (University of Tokyo/RIKEN) 3D flat band ferromagnetism in RCO_5
10:10 – 10:50	<i>Coffee break</i>
10:50 – 11:25	Carsten Putzke (MPSD Hamburg) Quantum Materials at the Micron Scale – Finite Size Confined Quasi-2D Materials
11:25 – 12:00	<i>Round-table discussion + Poster prize(s)</i>
12:00 – 13:30	Lunch and farewell