

Monday 7th June 2021

<i>Session</i>	<i>Time</i>		
	12:45 - 13:00	Opening	
Twistronics and correlated systems simulators	13:00 - 13:30	Dante Kennes	Moiré heterostructures: a condensed matter quantum simulator
	13:30 - 13:45	Thomas Bömerich	Skyrmion and Tetarton Lattices in Twisted Bilayer Graphene
	13:45 - 14:00	Simona Achilli	Quantum transport of strongly correlated electrons through GeV complexes in silicon: a combined ab-initio and Hubbard model approach
	14:00 - 14:15	Banhi Chatterjee	Electronic structure and magnetism in UGa_2 : DFT+DMFT approach
	14:15 - 14:45	Coffee break	
Quantum simulation of many-body systems	14:45 - 15:45	Fabian Grusdt	Parton picture of doped antiferromagnets: signatures in theory and experiment
	15:45 - 16:15	Roman Kuzmin	Quantum Impurity Physics In Circuit Quantum Electrodynamics
	16:15 - 16:30	Pauline Besserve	Strongly correlated materials via embedding methods: solving impurity models with a noisy quantum computer
	16:30 - 16:45	Lukas Rammelmüller	Improving the grasp of harmonically trapped fermions in low dimensions
	16:45 - 17:00	Coffee break	
Advanced optical spectroscopies in	17:00 - 17:30	Antonio Mezzacapo	Simulation of quantum chemistry with quantum computers and neural networks
	17:30 - 18:00	<i>Guided discussion on quantum simulators</i>	
Out of equilibrium dynamics	18:00 - 19:00	Maksym Serbyn	From quantum many-body scars to time crystals: entanglement steering via periodic driving

Tuesday 8th June 2021

<i>Session</i>	<i>Time</i>		
	10:00 - 12:00	Poster session I	
Advanced optical spectroscopies in correlated systems (theory)	13:00 - 13:30	Yuta Murakami	High-harmonic generation in strongly correlated systems
	13:30 - 13:45	Shohei Imani	Optical momentum-resolved spectroscopy based on time-reversal dynamics in correlated insulators
	13:45 - 14:00	Anna Kauch	p-ton contributions to optical conductivity in correlated electron systems
	14:00 - 14:15	Shun Okumura	Quadratic optical responses in a chiral magnet
	14:15 - 14:45	Coffee break	
Advanced spectroscopies in correlated and topological systems	14:45 - 15:45	Hadas Soifer	Ultrafast photocurrents in a topological insulator - an inside view
	15:45 - 16:15	Christopher W. Nicholson	An alternative route out of equilibrium: probing uniaxial strain effects with ARPES
	16:15 - 16:30	Coffee break	
	16:30 - 16:45	Filippo Glerean	Ultrafast anomalous thermal expansion in superconducting YBCO
	16:45 - 17:00	Wibke Bronsch	Time- and Angle-Resolved Photoemission Study on Bulk VSe ₂
	17:00 - 17:15	Yanhong Gu	Microscopic study of the spin Seebeck effect in YIG with resonant inelastic x-ray scattering
	17:15 - 17:30	Maxime Rumo	Insensitivity of the striped charge-orders in IrTe ₂ to alkali surface doping implies their structural origin
	17:30 - 18:00	Coffee break	

Out of equilibrium dynamics	18:00 - 18:30	Konstantin Tikhonov	Random Regular Graphs to Many-Body Localization
	18:30 - 18:45	Alessio Leroze	Influence matrix approach to quantum many-body dynamics
	18:45 - 19:00	Antonio Picano	A Quantum Boltzmann equation for strongly correlated electrons
	19:00 -19:15	Guido Homann	Higgs time crystal in a high-Tc superconductor

Wednesday 9th June 2021

<i>Session</i>	<i>Time</i>		
	10:00 - 12:00	Poster session II	
Topology in correlated systems	12:45 - 13:15	Cécile Repellin	Chern bands of twisted bilayer graphene: fractional Chern insulators and spin phase transition
	13:15 - 13:30	Armando Consiglio	Electronic Properties and Competing Zhang-Rice Singlets in a Stochastically Hole Doped Mixed Valence Cuprate with Glassy Behavior: the Case of LiCu_2O_2
	13:30 - 13:45	Anne Matthies	Driven Majorana Box Qubit
	13:45 - 14:00	Dorota Gotfryd	Spin-orbital entanglement in magnetic quantum materials
	14:00 - 14:15	Philipp Eck	Design and realization of a triangular QSHI: Indene on SiC
	14:15 - 14:45	Coffee break	
Free-electron laser based spectroscopies / numerical approaches to correlated systems	14:45 - 15:45	Roman Mankowsky	Lattice, charge, orbital and spin dynamics studied with ultrashort X-ray pulses
	15:45 - 16:00	Eugenio Paris	Unveiling ultrafast dynamics in quantum matter with soft x-rays: capabilities of the Furka endstation at SwissFEL
	16:00 - 16:15	Andrea Eschenlohr	Microscopic insight into optically induced excitations in NiO through fs time-resolved x-ray absorption spectroscopy
	16:15 - 16:30	Allan S. Johnson	Nanoscale X-ray holographic imaging of the ultrafast insulator-to-metal phase transition in vanadium dioxide
	16:30 - 16:45	Denitsa Baykusheva	Ultrafast renormalization of the onsite Coulomb repulsion in an underdoped cuprate
	16:45 - 17:00	Francesco Grandi	Fluctuation control of non-thermal orbital orders
	17:00 - 17:15	David Moreno-Mencía	Tracking the ultrafast non-thermal demagnetization of $\text{Sr}_3\text{Ir}_2\text{O}_7$
	17:15 - 17:30	Coffee break	
	17:30 - 18:00	Guided discussion on excitonic insulators	

Machine learning for correlated systems	18:00 - 18:30	Giacomo Torlai	Enhancing Quantum Simulations with Data-Driven Models
	18:30 - 18:45	Hideaki Iwasawa	Unsupervised Clustering of Spatially-resolved ARPES Data
	18:45 -19:00	Kamal Choudhary	High-throughput search for magnetic topological materials using spin-orbit spillage, machine-learning and experiments

Thursday 10th June 2021

<i>Session</i>	<i>Time</i>		
Ultrafast optical techniques in correlated systems	12:45 - 13:15	Elsa Abreu	THz driven dynamics in Mott insulator GaTa₄Se₈
	13:15 - 13:30	Paolo Franceschini	Toward Coherent Optical Control of the Insulator-to-Metal Transition in V ₂ O ₃
	13:30 - 13:45	Flavio Giorgianni	Nonlinear magnetophononics in a frustrated quantum antiferromagnet
	13:45 - 14:00	Daniel Perez-Salinas	Ultrafast melting of a C4-symmetry-broken phase: multi-modal and disordered
	14:00 - 14:15	Selene Mor	Photoinduced modulation of the excitonic resonance via coupling with coherent phonons in a layered semiconductor
	14:15 - 14:45	Coffee break	
Unconventional superconductivity / charge and spin ordering phenomena	14:45 - 15:15	Aline Ramires	Superconductivity in the locally non-centrosymmetric heavy fermion CeRh₂As₂
	15:15 - 15:30	Atsushi Hariki	Core-level x-ray spectroscopy of infinite-layer nickelate: DFT+DMFT analysis
	15:30 - 15:45	Shunsuke Yamamoto	Calculation of collective-mode excitations in excitonic magnet Ca ₂ RuO ₄
	15:45 - 16:15	Hlynur Gretarsson	Fingerprints of unconventional magnetism in ruthenates
	16:15 - 16:30	Fabio Boschini	Non-monotonic electron interactions in the copper oxide plane
	16:30 - 16:45	Karin von Arx	Fate of charge order in overdoped La-based cuprates
	16:45 - 17:00	Eric Wahlberg	Reshaping the electronic phase diagram of a high-T _c superconductor by strain
	17:00 - 17:15	Leonardo Martinelli	Fractional magnetic excitations in a large ring-exchange cuprate observed by high resolution RIXS
	17:15 - 17:30	Coffee break	
	17:30 - 18:00	<i>Guided discussion on twistrionics</i>	
Topology and unconventional superconductivity	18:00 - 19:00	Riccardo Comin	Topological physics and strong correlations in the 2D kagome network

	19:00 - 19:15	Closing the conference	Presentation of the next year organizers
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