

Sunday, 11. 12. 2022		
14:00 - 16:15	<i>Registration</i>	
16:15 - 16:30	Opening: NQW 2022	
	Chair: Janez Bonča	
16:30 - 17:00	Hermann Dürr	Ultrafast spin-lattice dynamics in FePt nanoparticles
17:00 - 17:30	Takami Tohyama	Electric Pulse Driven Spin and Charge Dynamics in Mott Insulators
17:30 - 17:45	Jaka Vodeb	Quantum Domain Melting in a Quantum Annealer
17:45 - 18:00	Anže Mraz	Visualisation of topology of a metastable domain state in 1T-TaS ₂
18:00 - 19:30	<i>Dinner and Discussions</i>	
	Chair: Takami Tohyama	
19:30 - 20:00	Nelson Hua	Intra- and Inter-Layer Charge Density Wave Dynamics of 1T-TaS ₂
20:00 - 20:30	Daniele Fausti	Cavity control of metal insulator transition in TaS ₂
20:30 - 20:45	Yevhenii Vaskivskiy	Charge Dynamics in the Amorphous State of 1T-TaS ₂
20:45 - 21:00	Banhi Chatterjee	Ground state symmetries and collective modes in Ta ₂ NiSe ₅

Monday, 12. 12. 2022		
	Chair: Daniele Fausti	
9:00 - 9:15	Lev Vidmar	Tutorial: Ergodicity breaking in quantum systems
9:15 - 9:45	Marcin Mierzejewski	Ergodicity and dynamics of strongly disordered one- and two-dimensional interacting systems
9:45 - 10:15	Robin Steinigeweg	Probing real-time broadening of nonequilibrium density profiles via a local coupling to a Lindblad bath
10:15 - 10:45	<i>Coffee break</i>	
	Chair: Marcin Mierzejewski	
10:45 - 11:15	Peter Jeglič	Suppression of dark-state polariton collapses in EIT-based cold-atom quantum memory
11:15 - 11:45	Seiji Yunoki	Photo-induced superconductivity by eta pairs in a Mott insulator
11:45 - 12:00	Miroslav Hopjan	Behavior of spectral form factor and survival probability in systems with eigenstate transitions
12:00 - 16:30	<i>Lunch, Poster Session, Discussions and Free time</i>	
	Chair: Peter Jeglič	
16:30 - 16:45	Tomaž Mertelj	Tutorial: What have experimentalists cooked up?
16:45 - 17:15	Simon Wall	Ultrafast melting of orbital order
17:15 - 17:45	Claude Monney	Collapse of the band gap at the surface of 1T-TaS ₂ induced by strain
17:45 - 18:00	Angela Montanaro	Clocking superconducting fluctuations in cuprates: a covariance-based approach
18:00 - 19:30	<i>Dinner and Discussions</i>	
	Chair: Tomaž Mertelj	
19:30 - 20:00	Peter Prelovšek	Slow diffusion in modulated spin chains: from periodic to random systems
20:00 - 20:15	Jan Šuntajs	Localization challenges quantum chaos in finite two-dimensional Anderson model
20:15 - 20:30	Rafal Swietek	Quantum chaos to integrability crossover in weakly disordered spin chains

Tuesday, 13. 12. 2022		
	Chair: Peter Prelovšek	
9:00 - 9:30	Stephane Mangin	Overcoming the Critical Slowing Down of Magnetization Dynamics
9:30 - 10:00	Philipp Werner	Nonequilibrium DMFT simulation of time-resolved X-ray absorption
10:00 - 10:15	Denis Golež	Time resolved X-ray absorption in charge-transfer insulators
10:15 - 10:45	<i>Coffee break</i>	
	Chair: Denis Golež	
10:45 - 11:15	Zala Lenarčič	Perturbed integrable systems
11:15 - 11:45	Masud Haque	Approaching the classical limit of Lindblad dynamics — emergence of limit cycles, fixed points and algebraic decay
11:45 - 12:00	Sourav Nandy	Autoencoder-assisted learning of Hamiltonians
12:00 - 16:30	<i>Lunch, Poster Session, Discussions and Free time</i>	
	Chair: Zala Lenarčič	
16:30 - 17:00	Martin Eckstein	Ultrafast dynamics of symmetry-broken states: From mean-field theory to a microscopic description of inhomogeneous disorder
17:00 - 17:30	Dragan Mihailović	The space-time fabric of a doped Wigner crystal
17:30 - 17:45	Rok Venturini	Pulsed excitations of 2H-NbSe ₂
17:45 - 18:00	German Blesio	DFT+DMFT calculations of electronic Raman scattering of Sr ₂ RuO ₄
18:00 - 19:30	<i>Dinner and Discussions</i>	
	Chair: Martin Eckstein	
19:30 - 20:00	Jure Demšar	Non-equilibrium superconductivity in THz driven two-band superconductor MgB ₂
20:00 - 20:15	Yelyzaveta Chernolevska	Superconductivity in Giant Poisson-Effect Strained 1T-TaS ₂ Thin Films Grown by Molecular Beam Epitaxy

Wednesday, 14. 12. 2022		
	Chair: Dragan Mihailović	
9:00 - 9:30	Alessandro Silva	Scrambling in quantum glasses
9:30 - 10:00	Patrycja Lydzba	Single-particle eigenstate thermalization and its effect on nonequilibrium dynamics in many-body systems
10:00 - 10:15	Iris Ulčakar	Tight-binding billiards
10:15 - 10:45	<i>Coffee break</i>	
	Chair: Patrycja Lydzba	
10:45 - 11:15	Andrej Zorko	A novel spin liquid on the triangular lattice
11:15 - 11:45	Adrian Feiguin	Beyond perturbation theory: multi-photon and non-radiative recombination effects in spectroscopies
11:45 - 12:00	Igor Vaskivskyi	Ultrafast and ultraefficient light modulator for EUV and X-rays based on photoinduced phase transition
12:00 - 16:30	<i>Lunch, Discussions and Free time</i>	
	Chair: Igor Vaskivskyi	
16:30 - 17:00	Alaska Subedi	Light-induced symmetry breaking via nonlinear phononics
17:00 - 17:30	Viktor Kabanov	On the classical limit of the polaron mass in the Holstein model
17:30 - 17:45	Žiga Gosar	Magnetic spectroscopy studies of quasi-one-dimensional superconductors
17:45 - 18:00	Janez Bonča	Optically driven electron-electron attraction in a model with nonlinear electron-phonon interaction
18:00 - 19:30	<i>Dinner and Discussions</i>	
	Chair: Jure Demšar	
19:30 - 20:00	Federico Cilento	Ultrafast dichroism in bulk transition metal dichalcogenides
20:00 - 20:15	Wibke Bronsch	Ultrafast dynamics in (TaSe ₄) ₂ I triggered by valence and core-level excitation

Thursday, 15. 12. 2022		
	Chair: Federico Cilento	
9:00 - 9:30	Jacek Herbrych	Hund bands in spectra of multiorbital systems
9:30 - 10:00	Tomaž Mertelj	Ultrafast optical polarimetry in magnetic phases of Kondo semimetal CeSb
10:00 - 10:15	Andrej Shumilin	Interface spin-Hall effect at metal-insulator border
10:15 - 10:45	<i>Coffee break</i>	
	Chair: Lev Vidmar	
10:45 - 11:15	Dmytro Afanasiev	Light-driven antiferromagnetic magnonics
11:15 - 11:30	Martin Ulaga	Thermoelectric diffusive modes
11:30 - 11:45	Luka Medic	Extending third quantization with commuting observables: a dissipative spin-boson model
11:45 - 12:00	Jan Ravnik	Surface and Bulk States in 1T-TaS ₂ : Are There More?
12:00 - 14:00	<i>Lunch and Departure</i>	