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Conference on Taming Non-Equilibrium Systems: from Quantum Fluctuation to Decoherence | (smr 3316)

Monday 29 July 2019

- Leonardo Building - Budinich Lecture Hall (13:00-17:20)

time	title	presenter
13:00	Registration formalities	
14:00	Quantum Acoustics Experiments	SIMON GROEBLACHER
14:40	Coherence, decoherence and Free-Electron Laser light	KEVIN PRINCE
15:20	Coffee break	
15:40	The Ultrafast Einstein-De Haas Effect	STEVEN JOHNSON
16:20	Femtosecond Covariance Spectroscopy	GIORGIA SPARAPASSI
16:40	Ab initio few-mode theory for quantum potential scattering problems	DOMINIK LENTRODT
17:00	Fluctuation Relation and Detailed Balance in open quantum systems	STEFANO MARCANTONI

notitle - Leonardo Building Terrace (18:00-20:00)

time	title	presenter
18:00	Poster Session	
18:00	Wine and Drinks	

Tuesday 30 July 2019

- Leonardo Building - Budinich Lecture Hall (09:20-16:20)

time	title	presenter
09:20	Measuring Decoherence and Interactions using Multidimensional Coherent Spectroscopy	STEVEN CUNDIFF
10:00	Light-phonon interaction investigation via multimode shaped homodyne detection	FILIPPO GLERAN
10:20	Ultrafast evolution of the prototype out-of-equilibrium Mott-Hubbard material V2O3	NILOUFAR NILFOROUSHAN
10:40	Group Photo	
10:45	Coffee break	
11:00	Status of Time-Domain Detection of Electric Quantum Fields	ALFRED LEITENSTORFER
11:40	Quantum dynamics under strong driving: Counter-rotating hybridized rotating wave method	ZHIGUO LYU
12:00	Sources of Double Phonon Frequency Oscillation in Pump-Probe Noise Spectroscopy	MASSIL LAKEHAL
12:20	Lunch break	
14:00	Recent theoretical advances on quantum cavity systems	CRISTIANO CIUTI
14:40	Emergent collective phenomena in quadratically driven-dissipative cavity arrays	RICCARDO ROTA
15:00	Topological Insulators in Quantum Heat Engines	SEYEDEH MOZHDEH FADAIE
15:20	Coffee break	
15:40	Non-equilibrium dynamics in Quantum Matter	DIETER JAKSCH

notitle - Leonardo Building Terrace (18:00-19:00)

time	title	presenter
18:00	Welcome reception	

Wednesday 31 July 2019

- Leonardo Building - Budinich Lecture Hall (09:20-16:20)

time	title	presenter
09:20	Order parameter recovery dynamics in pump and probe experiments	EUGENE DEMLER
10:00	Negative conductivity in metals out of equilibrium	GIULIANO CHIRIACO
10:20	Multistability, multimodality, and phase transitions from a quantum trajectories point of view	FABRIZIO MINGANTI
10:40	Coffee break	
11:00	Irreversibility and the quantum arrow of time	ERIC LUTZ
11:40	Stochastic and quantum physics of unstable systems	RADIM FILIP
12:00	Taming Non-Equilibrium Systems with QuTiP, the Quantum Toolbox in Python	NATHAN SHAMMAH
12:20	Lunch break	
14:00	Dynamical Monotones and Information Back-flow	FABIO BENATTI
14:40	Synchronisation, coherence and decoherence in a bio-inspired vibronic heterodimer	ALEXANDRA OLAYA-CASTRO
15:20	Coffee break	
15:40	Photodoped charge transfer insulators	DENIS GOLEZ

notitle - Leonardo Building Terrace (18:00-20:00)

time	title	presenter
18:00	Poster Session	
18:00	Wine and Drinks	

Thursday 01 August 2019

- Leonardo Building - Budinich Lecture Hall (09:20-12:20)

time	title	presenter
09:20	An ultra-narrow linewidth levitated nano-oscillator for testing dissipative wavefunction collapse	ANTONIO PONTIN
10:00	Quantum Measurement and Entanglement in an Ultracoherent Optomechanical System	ALBERT SCHLIESSER
10:40	Coffee break	
11:00	Non-equilibrium thermodynamics with levitated nanoparticles	MARIO ARNOLFO CIAMPINI
11:40	Energetic cost of quantum control protocol	OBINNA ABAH
12:00	Contributed talk	ALESSIO BELENCHIA