

QCCM Schedule

Time	Monday - 29.09.	Tuesday - 30.09.	Wednesday - 01.10.	Thursday - 02.10.	Friday - 03.10.
09:00	Registration	Anatoli Polkovnikov - Nontrivial high frequency limits in periodically driven systems	Mikhail Lukin - Nanoscale magnetic sensing via multi-particle interferometry	Steven Girvin - Recent progress in circuit QED	Mikhail Kiselev - Landau - Zener interferometry in multilevel systems
09:15					
09:30	Opening				
09:45	Peter Hänggi - Sweep a qubit to entangle states and to gauge its environment	Thomas Pohl - Many-body control of effective quantum magnets from Rydberg atom lattices	Tim Taminiau - Title - Quantum networks and quantum information with spins in diamond	Aashish Clerk - Photon-assisted tunnelling with non-classical light	Ulrich Schneider - Stückelberg interferometry in a hexagonal lattice
10:00					
10:15					
10:30	Coffee break	Coffee break	Guido Burkard - Landau-Zener quantum memory and all-optical quantum control in NV centers	Coffee break	Coffee break
10:45					
11:00	Dimitris Angelakis - Quantum simulations of condensed matter and exotic phenomena with strongly correlated photons and polaritons	Gilles Montambaux - Probing physics of Dirac cones by Landau-Zener interferometry		Jukka Pekola - Quantum thermodynamics in superconducting circuits	Menderes Iskin - Stripe-ordered superfluid, supersolid and vortex lattice phases in attractive Hofstadter-Hubbard model
11:15					
11:30			Program for the rest of the day: Lunch, Excursion and Conference dinner	Yuval Gefen - SU(2) Generalization of the Ambegaokar-Eckern-Schoen Action: Geometric Langevin Noise	Andreas Hemmerich - Band crossing dynamics with superfluid bosons
11:45	William D. Oliver - Coherent Landau-Zener transitions in superconducting qubits: interferometry, spectroscopy, cooling, and control	Mehmet O. Oktel - Landau-Zener transitions between topological and ordinary insulators			
12:00					
12:15					
12:30					Closing
12:45					
13:00	Lunch	Lunch		Lunch	
13:15					
13:30					
13:45					
14:00	Florian Forster - Characterization of Qubit Dephasing by Landau-Zener-Stückelberg-Majorana Interferometry	Oliver Morsch - From generalized Landau-Zener protocols to transitionless quantum driving		Alexander Atland - Echo spectroscopy of Anderson localization	
14:15					
14:30	Sigmund Kohler - Landau-Zener-Stückelberg interferometry: A tool for measuring decoherence	Pierre Barthelemy - Quantum simulations with quantum dots arrays		Sergey Shevchenko - Direct and inverse LZS interferometry and their application for nano-electro-mechanical systems	
14:45					
15:00					
15:15	Andrew Sachrajda - Landau-Zener-Stückelberg (LZS) interferometry in triple quantum dots	Richard J. Warburton - Manipulating the nuclear spins in a semiconductor quantum dot with frequency-swept magnetic resonance pulses		Coffee Break	
15:30					
15:45					
16:00	Daniel Dominguez - Quantum Bath Engineering in Landau-Zener-Stückelberg Interferometry	Peter Nalbach - Dissipative quantum dynamics at avoided crossings		Florian Marquardt - Time-dependent control of light and sound	
16:15					
16:30	Coffee break	Coffee break		Eva Weig - Coherent control of strongly coupled nanomechanical modes	
16:45					
17:00					
17:15					
17:30	Poster presentations	Poster presentations			
17:45					
18:00				Free Discussions	
18:15					