

NCCR SPIN Annual Meeting 2023

Monday, June 19, 2023

Time	Event
10:00	Scientific Advisory Board Meeting
	Individual Travel Arrangements
12:57	Arrival Train at Pontresina Station
13:24	Arrival Train at Pontresina Station
	Lunch buffet (opens 13:15.. until 14:00)
14:00	Opening
	Hole Spins Si
14:10	Petar Tomic (ETHZ) Transport characterization of FinFET MOS stack
14:25	Ilan Bouquet (ETHZ) Simulation of double quantum dot p-type Si FinFET
14:40	Andreas Kuhmann (Base) The Si FinFET MOS qubit platform
14:55	Matthias Mergenthaler + Jessica Richter (IBM) Improving the Si FinFET MOS qubit platform
15:10	Stefano Bosco (Base) Theory of hole spin qubits
15:25	Break (30 min)
	Hole Spins Ge
15:55	Santhanu Ramanandan (EPFL) Strategies for achieving high quality Ge nanowires
16:10	Marcin Kisiel (Base) Scanning probe microscopy of nanowire qubit devices
16:25	Miguel Carballido (Base) Sweet spots and 2Q gate at 1.5 K
16:40	Eoin Kelly (IBM) Crosstalk in gate-based dispersive readout
16:55	Rafael Eggli and Simon Svab (Base) Dispersive readout with STO varactors
17:10	Simone Frasca (EPFL) High-kinetic inductance magnetic field compatible parametric amplifiers
17:25	Poster Flash-Intro
17:50	Poster Session
18:30	Dinner
	Innovation Session
20:30	David Gunnarsson, CTO Bluefors
21:15	Fireside Chat Young Researchers General Assembly
22:00	Evening Reception

Tuesday, June 20, 2023

Time	Event
07:30	Breakfast
	Hole Spins planar Ge
09:00	Arianna Nigro (Base) Growth and characterization of Ge/Si-x Ge planar heterostructures for spin qubits applications
09:15	Eric Jutzi (Base) The hunt for the last hole in a planar Ge DQD
09:30	Franco De Palma (EPFL) Progress toward hybrid-cQED with holes in germanium
09:45	Leonardo Massai (IBM) Mitigating hysteresis and noise in Ge:SiGe hole spin qubits
10:00	Break (30 min)
	Theory
10:30	Lidia Stocker (ETHZ) RKKY-based entanglement bus in spinful cavity-double-dot systems
10:45	Henry Legg (Base) Determination of spin-orbit interaction in Ge via non-linear transport
11:00	Alexander Miessen (IBM) A hybrid quantum-classical method for electron-phonon systems
11:15	Guido Burkard (Konstanz) 30' Probing spin qubits and their environment with cavity QED
11:45	Alexandra Beckstein (QAI Ventures) Building a Quantum Ecosystem by Investing and Accelerating
12:05	Group Photo
12:15	Lunch Bags & Hikes
17:00	Poster Session
18:30	Conference Dinner
20:30	Poster Session
21:30	Young Researchers Forum
22:00	Evening Reception

Wednesday, June 21, 2023

Time	Event
07:30	Breakfast
	Spins
09:00	Wister Huang (ETHZ) Spin and valley lifetimes in graphene quantum dots
09:15	Luky Cheung (Base) Towards two coupled Andreev spin qubits
09:30	Fabrizio Nichele (IBM) Large spin-orbit-splitting of Andreev states in a 3T Josephson junction
09:45	Jann Ungerer (Base) Strong coupling of a singlet-triplet qubit to a photon
10:00	Break (30 min)
	Electrons and Architecture
10:30	Michele Aldeghi (IBM) Modular nanomagnets design for spin qubits confined in a linear chain
10:45	Adrian Ionescu (EPFL) Quantum dots array based on SOI nanowires with ferromagnetic Co
11:00	Cesar Zota (IBM) Cryo control electronics
11:15	Bence Hetenyi (IBM) Surface code for spins
11:30	Awards & Conclusions
11:45	Lunch Bags & Departure
	Departure Train from Pontresina Station
	Individual Travel Arrangements