

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

**Tuesday, June 20, 2023**

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

**Wednesday, June 21, 2023**

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