

BSCC	
<b>Tuesday - 14:00-15:45</b> BSCC - 1 (Platine)	
1	Routing thermal noise through quantum networks - <b>Xuereb André</b>
2	Optical Backaction-Evading Measurement of a Mechanical Oscillator - <b>Shomroni Itay</b>
3	Entanglement preserving local thermalization - <b>Hsieh Chung-Yun</b>
4	Preparation and detection of a phonon Fock states at room temperature - <b>Tarrago Velez Santiago</b>
5	Electron quantum optics and quantum signal processing - <b>Degiovanni Pascal</b>
6	Minimal Excitations in the Fractional Quantum Hall Regime - <b>Rech Jérôme</b>
7	Zero-field magnetometry based on nitrogen-vacancy ensembles in diamond - <b>Wickenbrock Arne</b>

<b>Wednesday - 14:00-16:00</b> BSCC - 2 (Platine)	
8	New single photon emitters in diamond based on group IV impurities - <b>Dítalia Tchernij Sviatoslav</b>
9	Deterministic Creation and Spins in Quantum Emitters in Atomically Thin Semiconductors - <b>Montblanch Alejandro</b>
10	Nanomaterials with optically addressable spins for quantum technologies - <b>Goldner Philippe</b>
11	Two-dimensional quantum materials and devices for scalable integrated photonic circuits (Project 2DSIPC) - <b>Dmitri Eletov</b>
12	Scalable Two-Dimensional Quantum Integrated Photonics (Project S2QUIP) - <b>Klaus Jörn</b>
13	Scalable Rare Earth Ion Quantum Computing Nodes (Project SQUARE) - <b>Hunger David</b>
14	Optical nanofibre mediated light interactions with cold Rb atoms - <b>Nic Chormali Sile</b>
15	Microwave driven ion trap quantum computing (Project MicroQ) - <b>Nikolay V. Vitanov</b>

<b>Thursday - 08:45-10:15</b>	
16	Temporal mode selective measurement and purification of quantum light - <b>Ansari Vahid</b>
17	Electric-field control of CMOS silicon spin qubits - <b>Niquet Yann-Michel</b>
18	Superconducting Josephson junctions in Si and Ge based scalable technology - <b>Lefloch François</b>
19	Cooper pair splitting, thermoelectricity, and quantum heat engine in graphene NSN system - <b>Hakonen Pertti</b>
20	Quantum metamaterials composed of superconducting flux qubits - <b>Il'ichev Evgeni</b>
21	Technology and Engineering for Quantum Technologies - <b>Radu Iuliana</b>

<b>Thursday - 10:45-12:15</b> BSCC - 3 (Auditorium)	
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<b>Friday - 8:45-10:30</b> BSCC - 4 (Platine)	
22	Quantum Microwave Communication and Sensing (Project QMICS) - <b>Frank Deppe</b>
23	Microwave remote state preparation vs. quantum cryptography - <b>Deppe Frank</b>
24	Photons for Quantum Simulation (Project PhoQus) - <b>Alberto Bramati</b> - Sorbonne Université, France
25	Hong Ou-Mandel effect under partial time reversal: an interference effect due to timelike indistinguishability in the amplification of light - <b>Cerf Nicolas</b>
26	Sub-Poissonian Photon Gun by Coherent Diffusive Photonics (Project PhoG) - <b>Natalia Korolkova</b>
27	The commercial case for QKD: an analysis of use cases and implications for the performance of the underlying technology - <b>Ryan Parker</b>
28	D-dimensional frequency-time entangled cluster states with on-chip/fiber-based photonic systems - <b>Kues Michael</b>

COMPUTING	
<b>Tuesday - 14:00-15:45</b> Computing - 1 (Auditorium)	
1	A linear Paul trap for catching, sympathetic cooling, identifying and shooting out ions: Applications in quantum information - <b>Ferdinand Schmidt-Kaler</b>
2	A Shuttling-Based Trapped Ion Quantum Processing Node - <b>Poschinger Ulrich</b>
3	Non-Abelian adiabatic geometric transformations in a cold Strontium gas - <b>Wilkowski David</b>
4	Quantum Information Processing using Trapped Atomic Ions and MAGIC - <b>Wunderlich Christof</b>
5	Gate-efficient simulation of molecular eigenstates on a quantum computer - <b>Ganzhorn Marc</b>
6	The materials science of Josephson junctions: modelling their formation and electrical response from an atomistic point of view - <b>Jared Cole</b>
7	Advanced quantum computing with trapped ions (Project Aqion) - <b>Thomas Monz</b> - Universität Innsbruck, Austria

<b>Wednesday - 14:00-16:00</b> Computing - 2 (Upper room)	
8	T-count optimization of quantum circuits using graph-theoretical rewriting of ZX-diagrams - <b>Van De Wetering John</b>
9	An Open Superconducting Quantum Computer (Project OpenSuperQ) - <b>Frank Wilhelm-Mauch</b> - Universität des Saarlandes, Germany
10	Quantum Lattice Enumeration - <b>Shen Yixin</b>
11	Application on LHC High Energy Physics data analysis with IBM Quantum Computing <b>Guan Wen</b>
12	Framing parameterized quantum circuits - <b>Theis Dirk Oliver</b>
13	Flight Gate Assignment with a Quantum Annealer - <b>Stollenwerk Tobias</b>
14	Quantum Annealing Tabu Search - <b>Pastorello Davide</b>
15	Quantum circuits with quantum control of causal orders - <b>Brandard Cyril</b>

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<b>Thursday - 10:45-12:15</b> Computing - 3 (Platine)	
16	Quadrupole Exchange-Only Spin Qubit - <b>Burkard Guido</b>
17	Strong Microwave Photon Coupling to the Quadrupole Moment of an Electron in Solid State - <b>Koski Jonne</b>
18	Gate-Based High Fidelity Spin Readout in a CMOS Device - <b>Niegemann David</b>
19	Circuit quantum electrodynamics with silicon spin qubits - <b>Benito Monica</b>
20	Gate-based readout for silicon spin qubits: Optimization and Scaling <b>Gonzalez-Zalba Fernando</b>
21	Long-range spin entanglement in semiconductor quantum circuits - <b>Jadot Baptiste</b>
22	Coherent displacement of individual electron spins in a two-dimensional array of tunnel coupled quantum dots - <b>Mortemousse Pierre-André</b>

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COMMUNICATION	
<b>Tuesday - 14:00-15:45</b>	
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<b>Wednesday - 14:00-16:00</b> Communication - 1 (Auditorium)	
1	Quantum Internet Alliance (Project QIA) - <b>Stephanie Wehner</b>
2	Affordable Quantum Communication for Everyone: Revolutionizing the Quantum Ecosystem from Fabrication to Application (Project UNIQORN) - <b>Hannes Hübel</b>
3	Quantum Storage of Frequency-Multiplexed Herald Single Photons - <b>Dario Lago-Rivera</b>
4	Towards broadband optical spin-wave quantum memory - <b>Alexey Iltsov</b>
5	A Broadband Rb Vapor Cell Quantum Memory for Single Photons - <b>Gianlu Buser</b>
6	Diamond Qubits in Nanocavity Spin-Photon Interfaces for Quantum Communication - <b>Tim Schröder</b>
7	Quantum Teleportation and Entanglement Swapping with Photons from a Quantum Dot - <b>Klaus Jörn</b>
8	On the robustness of a quantum internet - <b>Bruno Coutinho</b>

<b>Thursday - 08:45-10:15</b> Communication - 2 (Auditorium)	
9	Building the UK Quantum Network - <b>Joseph Pearce</b>
10	Continuous Variable Quantum Communications (Project CIVIQ) - <b>Valerio Pruneri</b>
11	A novel, simple source of quantum microwaves: Josephson-photonics devices - <b>Kubala Björn</b>
12	Quantum Random Number Generators: cheaper, faster and more secure (Project QRANGE) - <b>Hugo Zbinden</b>
13	Feasibility demonstration of Space Quantum Communications with MEO orbits for critical infrastructures - <b>Paolo Villorosi</b>
14	Supporting the commercialisation of quantum key distribution technology with ST-traceable measurements - <b>Robert Kirkwood</b>

<b>Thursday - 10:45-12:15</b> Communication 3 (upper room)	
15	Security and implementation of practical unforgeable quantum money - <b>Mathieu Bozzio</b>
16	Classical delegation of secret qubits and applications in quantum protocols - <b>Alexandru Cojocar</b>
17	Quantum random number generation with partially characterised devices based on bounded energy - <b>Davide Rusca</b>
18	Anonymity for practical quantum networks - <b>Anupama Unnikrishnan</b>
19	Heralded entanglement in quantum communication networks - <b>Rob Thew</b>
20	NanoBob: Quantum Secure Communication with a CubeSat - <b>Erik Kerstel</b>

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SENSING	
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<b>Wednesday - 14:00-16:00</b> Sensing - 1 (upper room)	
1	Quantum jump metrology - <b>Almut Beige</b>
2	UK National Quantum Technology Hub in Sensors and Metrology - <b>Yespal Singh</b>
3	Quantum sensors with matter waves: geodesy, navigation and general relativity - <b>Philipp Bouyer</b>
4	Relaxation and Dephasing in Hot - Electron Quantum Optics Interferometry - <b>Clark Lewis</b>
5	Single microwave photon detection by an underdamped Josephson junction - <b>Oelsner Gregor</b>
6	Microwave field imaging with atomic vapor cells - <b>Shi Yongqi</b>

<b>Thursday - 08:45-10:15</b> Sensing - 2 (Platine)	
7	Spin squeezing in a trapped atom clock and waveguide design for on-chip atom interferometry - <b>Garrido Alzar Carlos L.</b>
8	Leveraging room temperature diamond quantum dynamics to enable safe, first-of-its-kind, multimodal cardiac imaging (Project MetabolicQ) - <b>Ilai Schwarzs</b>
9	Quantum Absolute Sensors for Gravity measurements - <b>Merlet Sébastien</b>
10	Advancing Science and Technology through diamond Quantum Sensing (Project ASTERIQS) - <b>Thierry Debusschert</b>
11	Using polarons for sub-nK quantum non-demolition thermometry in a Bose-Einstein condensate - <b>Mehboudi Mohammad</b>
12	Integrated Quantum Clock (Project iQClock) - <b>Yeshpal Singh</b>

<b>Thursday - 10:45-12:15</b> Sensing - 3 (upper room)	
13	Noise-immune cavity-assisted non-destructive detection for an optical lattice clock in the quantum regime - <b>Lodewyck Jérôme</b>
14	Quantum enhanced optical measurements with twin-beams: from absorption estimation to ghost microscopy - <b>Losero Elena</b>
15	Time-continuous measurements for advanced quantum metrology - <b>Genoni Marco G.</b>
16	Towards a quantum-enhanced trapped-atom clock on a chip - <b>Reichel Jakob (2)</b>
17	Overcoming resolution limits with quantum sensing - <b>Gefen Tuvia</b>
18	Miniature Atomic vapor-Cells Quantum devices for Sensing and Metrology Applications (Project MACQSIMAL) - <b>Jacques Haesler</b>
19	Beam shaping and control in an optical fibre based atom interferometer - <b>Farjes Mark</b>

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SIMULATION	
<b>Tuesday - 14:00-15:45</b> Simulation - 1 (upper room)	
1	Programmable Atomic Large-Scale Quantum Simulation (Project PASQuAns) - <b>Andrew Daley</b>
2	Coherence effects in Atomtronics circuits - <b>Luigi Amico</b>
3	Hypersonic matterwave guiding for atom-interferometry - <b>Wolf Von Klitzing</b>
4	Exciton and charge transport via cavity-mediated long-range interactions - <b>Guido Pupillo</b>
5	Quantum Frequency Comb for Quantum Complex Networks - <b>Valentina Parigi</b>
6	Sample complexity of device-independently certified "quantum supremacy" - <b>Kliesch Martin</b>
7	Probing the influence of many-body fluctuations on Cooper pair tunneling using circuit QED - <b>Leger Sébastien</b>

<b>Wednesday - 14:00-16:00</b> Simulation - 2 (Platine)	
8	Analogue randomized benchmarking for testing quantum simulation - <b>Derbyshire Ellen</b>
9	Quantum simulation and entanglement engineering in quantum cascade laser frequency combs (Project Qcombs) - <b>Augusto Smerzi</b>
10	OTOCs and SPT invariants from statistical correlations of randomized measurements - <b>Andreas Elben</b>
11	Simulating Nagaoka Ferromagnetism in a 2D Quantum Dot Array - <b>Mukhopadhyay</b>
12	Controlling symmetry and localization with artificial gauge fields in disordered quantum systems - <b>Chircireanu Radu</b>
13	EXPERIMENTAL STUDIES OF SPIN DYNAMICS IN AN ATOMIC DIPOLAR CONDENSATE - <b>Olivier Gorceix</b>

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