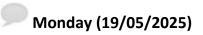


TENTATIVE PROGRAM (as of 19/05/2025)

K: Keynote lecture / I: Invited Lecture / O: Oral contribution

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Plenary Session	p.13



TUTORIALS

Reserved for PhD Students who've secured their contribution at QuantuMatter2025 (Capacity: 60 max)

Chair: TBD	
13:30 – 14:30: Yann-Michel Niquet (CEA, France) What does modelling tell us about spin qubits?	Т
14:30 – 15:30: Xavier Waintal (CEA Grenoble, France)	Т
New trends in tensor networks: from machine learning to Quantum computing	
15:30 – 16:00: <i>Coffee Break</i>	
Chair: TBD	
16:00 – 17:00: Eric Akkermans (Technion, Israel)	Т
Topological Defects: Creating and Imaging Quantum Matter 17:00 – 18:00: Cristiane Morais Smith (Utrecht University, The Netherlands)	Т
Topology between one and two dimensions	
Tuesday (20/05/2025)	
Chair : Silvano de Franceschi (CEA/UGA, France)	
08:00 – 08:45: Registration 08:45 – 09:00: Opening	
09:00 – 09:30: M. Zahid Hasan (Princeton University, USA)	K
New Frontiers in Topological Quantum Matter	
09:30 – 09:45: Philippe St-Jean (Université de Montréal, Canada)	0
Quantized Hall drift in a frequency-encoded photonic Chern insulator 09:45 – 10:15: Gloria Platero Coello (ICMM-CSIC, Spain)	1
Long-range quantum transfer mediated by topological edge states	'
10:15 – 10:30: Award Ceremony	
10:30–11:15: Coffee Break / Poster Session / Exhibition	
Chair : Soo-Hyon Phark (Center for Quantum Nanoscience, South Korea)	
11:15 – 11:45: Katharina Franke (Freie Universität Berlin, Germany)	1
Atomic-scale design of magnetic adsorbate structures on superconductors	0
11:45 – 12:00: Ziwei Dou (Institute of Physics, Chinese Academy of Sciences, China) Evidence of P-wave Pairing in K2Cr3As3 Superconductors from Phase-Sensitive Measurement	0
12:00 – 12:15: Pascal Simon (University Paris-Saclay, France)	0
Magnetic impurities in superconductors: Role of many-body interactions	
12:15 – 12:30: Kevin Roux (ISTA, Austria)	0
Granular aluminium superinductors for cQED experiments on planar Germanium	1
12:30 – 13:00: Max Hays (MIT, USA) Non-degenerate Noise-Resilient Superconducting Qubit	'
13:00 – 14:00: Cocktail Lunch (offered by the organizers)	
14:00 – 14:30: Poster Session I	
Chair: Katharina Franke (Freie Universität Berlin, Germany)	
14:30 – 15:00: Lieven Vandersypen (Tudelft/QuTech, The Netherlands)	I
Semiconductor spin qubits – vision, opportunities and challenges 15:00 – 15:15: Corentin Déprez (QuTech, TU Delft, The Netherlands)	0
Shared-control shuttling link between distant germanium spin-qubit registers	Ü
15:15 – 15:30: Alfredo Levy Yeyati (Universidad Autónoma de Madrid, Spain)	0
Quantum Circuits with Multiterminal Josephson-Andreev Junctions	

15:30 – 15:45: François Lefloch (CEA-Grenoble - IRIG/PHELIQS, France)	0
Gate- and flux-tunable sin(2phi) Josephson element with proximitized Ge-based junctions	
15:45 – 16:00: Kilian Sandholzer (Technical University of Munich, Germany)	0
Erbium dopants in silicon for quantum networks	
16:00 – 16:15: Seddik Ouacel (CNRS, Institut Néel, France)	0
Electronic interferometry with ultrashort plasmonic pulses	
16:15 – 16:45: Soo-Hyon Phark (Center for Quantum Nanoscience, South Korea)	1
Coherent Quantum Platform Crafted Atom-by-Atom on a Surface	

16:45-17:45: Coffee Break / Poster Session / Exhibition



Wednesday (21/05/2025)

Wednesday (21/05/2025)	
Workshop 01: Topological Quantum Matter: materials growth, characterization & theory Chair: Giordano Scappucci (Delft University of Technology, The Netherlands)	
09:00 – 09:15: Valentina Bonino (ESRF, France)	0
Using X-rays nanoprobes to investigate local carrier confinement in multi-quantum wells-based nanostructure 09:15 – 09:30: Alexander Pawlis (Forschungszentrum Jülich GmbH, Germany)	es O
Novel concept for all-in-situ quantum device epitaxy with III/V and II/VI semiconductors 09:30 – 09:45: Elena Missale (FBK, Italy)	О
Engineering Germanium-Vacancy Center Arrays in Diamond Nanopillars for Quantum Applications 09:45 – 10:00: Rosa Estela Diaz Rivas (Purdue University, USA)	0
Atomic-Scale Analysis of Metal-Semiconductor and Quantum Well Interfaces: Developing Metrics for Quantum Device Engineering	n
10:00 – 10:30: Jordi Arbiol (ICREA & ICN2, Spain)	ı
Quantum nanostructures at atomic scale: From vertical hybrid nanowires to planar nanowire networks and 2DEG/2DHG systems	
10:30– 11:30: Coffee Break / Poster Session / Exhibition	
Chair: Jordi Arbiol (ICREA & ICN2, Spain) 11:30 – 12:00: Giordano Scappucci (Delft University of Technology, The Netherlands)	ı
Materials for quantum computing: On and off the beaten path	•
12:00 – 12:15: Noelia Fernandez (kiutra GmbH, Germany)	О
Stray magnetic fields in cryogenic environments as a source of decoherence of superconducting qubits 12:15 – 12:30: Moïra Hocevar (Institut Néel CNRS, France)	0
Alternative Superconductors to Aluminum for Gate-Tunable Hybrid Josephson Junctions	Ū
12:30 – 12:45: Francesca Chiodi (Université Paris Saclay, France)	О
Tuning Silicon and SiGe superconductivity with Nanosecond Laser Doping	_
12:45 – 13:00: Sisheng Duan (National University of Singapore, Singapore) Doping-Tunable Charge Ordering in Semiconducting Single-Layer Cr2Se3	0
13:00 – 14:45: Lunch Break	
Chair: Moïra Hocevar (Institut Néel CNRS, France)	
14:45 – 15:15: Niels B. M. Schröter (Max Planck Institute for Microstructure Physics in Halle, Germany) Spin- and Orbital Monopoles in Chiral Semimetals	I
15:15 – 15:30: Maddison Coke (University of Manchester , UK) Isolation and characterisation of novel isotope clusters for ion-implanted qubits	0
15:30 – 15:45: Eva Maria Gonzalez Ruiz (Institut de Physique Théorique, CEA, France)	0
Two-photon correlations and HOM visibility from an imperfect single-photon source	
15:45 – 16:00: Jianguo Wen (Argonne National Laboratory, USA) Quantum Emitter Electron Nanomaterial Microscope: A Tool for Analyzing Atomic Structures and Dynamics of Active Quantum Emitters	0

16:00 – 17:00: Coffee Break / Poster Session / Exhibition

Workshop 02: Quantum matter: theory & simulations	
Chair: Raquel Queiroz (Columbia University in the City of New York, USA) 09:00 – 09:15: Matteo Brunelli (College dr France, France)	0
Nonreciprocal Quantum Matter 09:15 – 09:30: Nicolas Lorente (CSIC, Spain)	0
Realization of Two-dimensional Discrete Time Crystals with Anisotropic Heisenberg Coupling	O
09:30 – 09:45: Tommaso Roscilde (Ecole Normale Supérieure de Lyon, France)	0
Scaling multipartite entanglement in the real world 09:45 – 10:00: Kilian Seibold (University of Konstanz, Germany)	0
Quantum driven dissipative systems and their topological properties	
10:00 – 10:30: Nathan Goldman (Collège de France, Paris & International Solvay Institutes & Universit Bruxelles, Belgium)	é Libre de I
Correlated topological matter: news and views from quantum simulation	·
10:30– 11:30: Coffee Break / Poster Session / Exhibition	
Chair : Nathan Goldman (Collège de France, Belgium)	
11:30 – 12:00: Raquel Queiroz (Columbia University in the City of New York, USA)	1
Quantum geometry: how to picture bound electrons in infinite lattices 12:00 – 12:15: Matthew Brooks (Laboratory for Physical Sciences, USA)	0
Simulated Non-Abelian Statistics of Majorana Zero Modes from A Kitaev Lattice	O
12:15 – 12:30: Botao Wang (Université Libre de Bruxelles, Belgium)	0
Constructing lattice models for anyons in one dimension	
12:30 – 12:45: Jeanne Colbois (Institut Neel, CNRS & UGA, France)	0
Instabilities in the random-field XXZ chain 12:45 – 13:00: Carlo Trugenberger (SwissScientific Technologies SA, Switzerland)	0
Superinsulation: theory and applications	O
13:00 – 14:45: Lunch Break	
Chair: Ramon Aguado (ICMM-CSIC, Spain)	
14:45 – 15:15: Reinhold Egger (Heinrich Heine University Düsseldorf, Germany)	1
Quantum Mpemba Effects	
15:15 – 15:30: Guangze Chen (Chalmers University of Technology, Sweden) Quantum simulation of open quantum many- body systems with giant atoms	0
15:30 – 15:45: Laurent Vernac (Laboratoire de Physique des Lasers, France)	0
Probing quantum thermalization and quantum magnetism with lattice-trapped dipolar atoms	
15:45 – 16:00: Nicolas Cherroret (CNRS, France)	0
From inverse-cascade to sub-diffusive dynamic scaling in driven disordered Bose fluids 16:00 – 16:15: Speaker TBD	
16:15 – 17:00: Coffee Break / Poster Session / Exhibition	
Chair: Reinhold Egger (Heinrich Heine University Düsseldorf, Germany)	
17:00 – 17:30: Ramon Aguado (ICMM-CSIC, Spain)	1
Novel qubits in hybrid semiconductor-superconductor nanostructures 17:30 – 17:45: Andriani Keliri (JEIP Collège de France, CNRS, France)	0
Slave-spin approach to the Anderson-Josephson quantum dot	O
Workshop 03: Quantum information	
Chair : Lorenzo Mauro (CEA Grenoble, France)	
09:00 – 09:15: Ahmad Fouad Kalo (CEA, France)	0
Hole Spin-Photon Coupling in Silicon and Germanium Double Quantum Dots	^
09:15 – 09:30: Tereza Vakhtel (TU Delft, The Netherlands) Long-range optical coupling of distant quantum dot spins	0
09:30 – 09:45: Michael Stern (Bar llan University, Israel)	0
Strong coupling of a superconducting flux qubit to single bismuth donors	

09:45 – 10:00: Maxime Gaignard (CEA, France) Resonance fluorescence from a single quantum dot in a nanopost optical cavity 10:00 – 10:30: Mario Berta (RWTH Aachen University, Germany)	0 I
Title to be defined	'
10:30– 11:30: Coffee Break / Poster Session / Exhibition	
Chair: Maxime Gaignard (CEA, France) 11:30 – 11:45: Biel Martinez i Diaz (CEA Leti, France)	0
Steps towards variability-resilient spin qubits 11:45 – 12:00: Lorenzo Mauro (CEA Grenoble, France)	0
Strain engineering in Ge/GeSi spin qubits heterostructures 12:00 – 12:15: Andras Palyi (Budapest University of Technology and Economics, Hungary)	0
Exploiting the non-Abelian Berry phase for coherent control of spin qubits in semiconductors 12:15 – 12:30: Olivier Buisson (CNRS, France)	0
High fidelity at high power in transmon qubit readout and suppression of measurement induced state transitions 12:30 – 12:45: Jaime Saez-Mollejo (Institute of Science and Technology Austria, Austria)	0
Exchange anisotropies in microwave-driven singlet-triplet qubits 12:45 – 13:00: Mark van Blankenstein (UNSW, Australia)	0
Encoded cat qubit in a high spin nucleus in Silicon	
13:00 – 14:45: Lunch Break	
Chair : Adolfo G. Grushin (Institut Néel / CNRS, France) 14:45 – 15:15: Daniel Stilck França (École Normale Supérieure de Lyon, France)	ı
Optimal quantum algorithm for Gibbs state preparation 15:15 – 15:45: Luca Tagliacozzo (CSIC, Spain)	I
On temporal entropies, their scaling and measurement in many-body quantum dynamics 15:45 – 16:00: Diego Fossion (UClouvain, Belgium)	0
Probing the Kondo cloud in a quantum dot: finite-size effects and barrier symmetry	
16:00 – 17:00: Coffee Break / Poster Session / Exhibition	
Chair : Daniel Stilck França (École Normale Supérieure de Lyon, France) 17:00 – 17:15: Adrià Medeiros Garay (C2N - Université Paris Saclay, France)	0
Heralding of a single spin via giant polarization rotations in a QD-based spin-photon interface 17:15 – 17:30: Félix Cache (Laboratoire Charles Coulomb, France)	0
Coherent spin control of telecom single-photon emitters in Silicon	0
17:30 – 17:45: Farah Basaric (Forschungszentrum Jülich, Germany) Aharonov-Bohm and Altshuler-Aronov-Spivak oscillations in quasi-ballistic phase-pure core/shell GaAs/InAs nanowires	U
Workshop 04: Quantum Computing	
Chair : Pol Forn-Díaz (IFAE, Spain) 09:00 — 09:15: Benoit Bertrand (CEA-LETI, France)	0
FDSOI Spin Qubit Device optimization 09:15 – 09:30: Maximilian Rimbach-Russ (QuTech and Kavli Institute of Nanoscience, Delft University of	
Technology, The Netherlands) Systematic High-Fidelity Operations and Transfer of Semiconductor Spin-Qubits	0
09:30 – 09:45: Kiryl Piasotski (KIT, Germany) Theory of three-terminal Andreev spin qubits	0
09:45 – 10:00: Malcolm Connolly (Imperial College London, UK) A proposal for charge basis tomography of superconducting qubits	0
10:00 – 10:30: Romain Maurand (CEA, France) Hole spin in silicon: from spin qubits to spin-photon interaction	I
10:30– 11:30: Coffee Break / Poster Session / Exhibition	

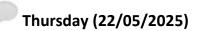
Chair: Romain Maurand (CEA, France) 11:30 – 12:00: Menno Veldhorst (TU Delft, The Netherlands) Operating and interconnecting qubit registers	I
12:00 – 12:15: Lorenzo Leandro (Quantum Machines, Italy)	0
Qubit reset via adaptive thresholding: a scalable approach for large quantum processing devices 12:15 – 12:30: Priya Sharma (University of Surrey, UK)	0
Towards a micromechanical qubit based on quantized oscillations in superfluid helium	
12:30 – 13:00: Pol Forn-Díaz (IFAE, Spain)	I
Superconducting Qubits as sensors of High Energy Physics	
13:00 – 14:45: Lunch Break	
Chair: Cécile Yu (QuTech, The Netherlands)	
14:45 – 15:15: Benjamin Huard (Ecole Normale Supérieure de Lyon, France)	I
Passive two-photon dissipation for bit-flip error correction of a cat code 15:15 – 15:30: Paul Warburton (UCL, UK)	0
Electric-Field Tuning of a Superconducting Resonator via the Aharonov-Casher Effect	
15:30 – 15:45: Sumeru Hazra (Yale University, USA)	0
Parsing Spurious Transitions in Driven Superconducting Circuits	
15:45 – 16:00: Leo Peyruchat (EPFL, Switzerland)	0
Multimode Surface Acoustic Wave Interactions Mediated by a Nonlinear SQUID Array 16:00 – 16:15: Gonzalo Martín Vázquez (University of Seville, Spain)	0
Passive leakage removal unit based on a disordered transmon array	Ū
16:15 – 17:00: Coffee Break / Poster Session / Exhibition	
Chair : Benjamin Huard (Ecole Normale Supérieure de Lyon, France)	
17:00 – 17:15: Xi Chen (The Material Science Institute of Madrid, ICMM-CSIC, Spain)	Ο
Optimal Control for Open Quantum System in Circuit Quantum Electrodynamics	_
17:15 – 17:30: Koushik Paul (University of Basque Country (UPV/EHU), Spain) Photonic counterdiabatic quantum optimization algorithm	0
17:30 – 17:45: Segolene Olivier (CEA, France)	0
A low-loss 200 mm SiN quantum photonics platform for quantum computing	
17:45 – 18:00: Eduardo Lee (Universidad Autonoma de Madrid, Spain)	0
Emergent anomalous metallic phase in InAs-Al nanowires due to inverse proximity effect	_
18:00 – 18:15: Esteban Rodriguez (CEA Grenoble, France) Unifying Floquet theory of longitudinal and dispersive coupling	0
18:15 – 18:30: Alessandro Crippa (NEST, CNR-Istituto Nanoscienze e Scuola Normale Superiore, Italy)	0
Coherent microwave comb generation by Josephson effect	
18:30 – 18:45: Simone Gasparinetti (Chalmers University of Technology, Sweden)	Ο
Digital homodyne and heterodyne detection for stationary bosonic modes	_
18:45 – 19:00: Anatoly Kulikov (ETH Zurich, Switzerland) Remote readout and arbitrary-phase gate between spatially separated superconducting nodes	0
The state of the s	
Workshop 05: Quantum sensing	
Chair: Eva Weig (TUM, Germany) 09:00 – 09:15: Charlie Patrickson (University of Exeter, UK)	0
Coherence Protection and High Frequency Magnetometry using an Ensemble of VB- in hexagonal Boron Nitri	_
09:15 – 09:30: Sambunath Das (Institute of Physics of the Czech Academy of Sciences, Czech Republic)	0
Harnessing spin-qubit decoherence to probe strongly-interacting quantum systems	
09:30 – 09:45: Sandrine Lopes (C12 Quantum Electronics- Institut Jean Lamour, France)	0
On-chip micromagnet for spin qubit architecture: magnetic characterization and integration 09:45 – 10:00: Paritosh Karnatak (University of Basel, Switzerland)	0
Probing the magnetic order in a ferromagnetic monolayer	J
10:00 – 10:15: Giacomo Rebora (ENS de Lyon, France)	0
Time-resolved sensing of electromagnetic fields with single-electron interferometry	

10:15–11:30: Coffee Break / Poster Session / Exhibition

Chair: Anna Minguzzi (CNRS, France) 11:30 – 12:00: Eva Weig (TUM, Germany)	
Towards spin-based quantum sensing in hybrid nanomechanical systems based on silicon carbide	ı
12:00 – 12:15: Stefan Forstner (ICFO - The Institute of Photonic Sciences, Spain)	0
Exploring strong mechanical nonlinearities from electron-phonon coupling via charge sensing	
12:15 – 12:30: Stephanie Matern (CNR-INO Pitaevskii BEC Center and University of Trento, Italy)	0
Detecting propagating microwave photons with quantum nondemolition transport measurements	
12:30 – 12:45: Patrick Wong (Nordita, Sweden)	0
Quantum Sensing from Gravity as Universal Dephasing Channel for Qubits	
12:45 – 13:00: Tristan Clua Provost (CNRS - Université de Montpellier, France)	0
A quantum sensor made of spin defects in an atomically-thin van der Waals material	
13:00 – 14:45: Lunch Break	
Chair : Silvano de Franceschi (CEA/UGA, France)	
14:45 – 15:15: Paola Cappellaro (Massachusetts Institute of Technology, UK)	1
Quantum Advantage in Multiparameter Sensing	
15:15 – 15:30: Stefano Gregorio Giaccari (INRiM, Italy)	0
Coupled atom-cavity systems for quantum-enhanced metrology: adiabatic elimination of the cavity mod	de
beyond the leading order 15:30 – 15:45: Jianfeng Ge (Max Planck Institute for Chemical Physics of Solids, Germany)	0
Proof-of-concept atomic-scale visualization of 'poisoning' quasiparticles in superconductors	
15:45 – 16:00: Petr Steindl (C2N, Photonics Department, France)	0
Optimizing direct single-photon Wigner-function measurement	
16:00 – 17:00: Coffee Break / Poster Session / Exhibition	
Chair: Paola Cappellaro (Massachusetts Institute of Technology, UK)	
17:00 – 17:15: Pascal Degiovanni (CNRS / ENS Lyon, France)	0
The electronic ambiguity function in electron quantum optics	
17:15 – 17:30: Jorge Perez-Bailon (INMA, Spain)	0
Fabrication of Nb SQUIDs using a Pt protective layer deposited with FEBID	
17:30 – 17:45: Sreehari Jayaram (Physikalisches Institut, Germany)	0
Probing Vortex Dynamics in 2D Superconductors with Scanning Quantum Microscopy	
Workshop 06: Topological quantum matter: electronics, spintronics, photonics & phononics	
Chair: Ibrahim Sarpkaya (Bilkent University-UNAM, Turkey)	
09:00 – 09:15: Aybey Mogulkoc (Ankara University, Turkey)	0
Magnetic and Chiral Properties of 2D Janus VXY (X= Cl, Br, I; Y= S, Se, Te) Monolayers	
09:15 – 09:30: Yesim Mogulkoc (Ankara University, Turkey)	0
Magnetic and Electronic Properties of Fe₃GeTeX (X = S, Se) Janus/Germanene Heterobilayers	0
09:30 – 09:45: Ivan Amelio (Université Libre de Bruxelles, Belgium) Polarons and quantum optics of correlated 2D materials	0
09:45 – 10:00: Kuan Eng Johnson Goh (Agency for Science Technology and Research, Singapore)	0
Electrical Manipulation of Valley Polarized Charged Excitons in 2D Transition Metal Dichalcogenides	· ·
10:00 – 10:15: Vincent Renard (UGA/CEA, France)	0
Experimental evidence of the topological obstruction in twisted graphene layers	
10:15 – 10:30: Yuval Abulafia (Technion, Israel)	0
Localized defects turn graphene to topological: dislocations & fractional charge	
10:30– 11:30: Coffee Break / Poster Session / Exhibition	
Chair: Vincent Renard (UGA/CEA, France)	
11:30 – 11:45: Richard Curry (University of Manchester, UK)	0
Isotopically Enriched 28-Silicon for Quantum Technologies	
11:45 – 12:00: Mason Adshead (University of Manchester, UK)	0
Deterministic Ion Implantation for Quantum Materials	_
12:00 – 12:15: Werner van Weerdenburg (Freie Universität Berlin, Germany) Exploring 2H-NbS2 as a platform for extended Yu-Shiba-Rusinov structures	0
Exploring 211-19032 as a platiothi for extended the simple-kusinov structures	

12:15 – 12:30: Ismaël Septembre (University of Siegen, Germany) Non-Hermitian geometry and topology induce non-trivial photonic dynamics	0
12:30 – 13:00: Julia S. Meyer (CEA-Grenoble, France)	ı
Classification of Topological phases in multiterminal Josephson junctions	
13:00 – 14:45: Lunch Break	
Chair: TBD 14:45 – 15:15: Mikael Rechstmann (The Pennsylvania State University, USA)	ı
Fractional quantization in nonlinear optical Thouless pumps	
15:15 – 15:30: Sara Catalano (Material Physics Center, Spain) EuS Interfaces for Low Temperature Spintronics	0
15:30 – 15:45: Ibrahim Sarpkaya (Bilkent University-UNAM, Turkey) Quantum Nature of Interaction between Two Spin States of Interlayer Excitons in a TMDC Heterostructure	0
15:45 – 16:00: Michaël Croquette (CNRS - Institut Néel, France)	0
Cavity optomechanics in the single photon regime	
16:00 – 17:00: Coffee Break / Poster Session / Exhibition	
Chair: Sara Catalano (Material Physics Center, Spain)	
17:00 – 17:15: Florinda Viñas Boström (University of Copenhagen, Denmark) Topological superconductivity in a quantum wire proximate to a helical magnet and conventional	0
superconductor 17:15 – 17:30: Lena Engström (Université Paris-Saclay, France)	0
Detecting the topological winding of superconducting nodes via Local Density of States	
17:30 – 17:45: Victor Rollano (Centro de Astrobiología, Spain) Avoiding two-level-system losses in superconducting niobium resonators using gold capping layer	0
17:45 – 18:15: Ferdinand Kuemmeth (University of Regensburg, Germany) Proximitized germanium heterostructure as a platform for hybrid quantum devices	I
Proximitized germanium neterostructure as a piatrorm for hybrid quantum devices	
Workshop 07: Quantum simulation	
Chair: Martin Ringbauer (Universität Innsbruck, Austria)	0
09:00 – 09:15: Gabriel Breuil (DLR - German Aerospace Center, Germany) A comprehensive framework for quantum simulations of crystal structures using plane-wave and Wannier	0
function-based methods 09:15 – 09:30: Julian Schuhmacher (IBM Quantum, IBM Research Europe - Zurich, Switzerland)	0
Hybrid Tree Tensor Networks for Quantum Simulation	
09:30 – 10:00: Ivan Kassal (University of Sydney, Australia) Simulating Quantum Chemical Dynamics on Quantum Computers	I
10:00 – 10:30: Andrew King (D-Wave, USA) Beyond-Classical Computation in Quantum Simulation	I
10:30– 11:30: Coffee Break / Poster Session / Exhibition	
Chair: Ivan Kassal (University of Sydney, Australia) 11:30 – 12:00: Martin Ringbauer (Universität Innsbruck, Austria)	ı
Quantum Computing and Simulation with Qudits	'
12:00 – 12:15: Niccolò Baldelli (Barcelona Supercomputing Center, Spain) Fragmented superconductivity in the Hubbard model as solitons in Ginzburg–Landau theory	0
12:15 – 12:30: Jose Carlos Abadillo-Uriel (CSIC, Spain)	0
Theory of superconducting proximity effect in hole-based hybrid semiconductor-superconductor devices 12:30 – 12:45: Rok Zitko (Jozef Stefan Institute, Slovenia)	0
Charge-conserving models for superconducting quantum devices 12:45 – 13:00: Sudipto Das (Budapest University of Technology and Economics, Hungary)	0
Towards Unveiling the Topology of the 5/2 Fractional Quantum Hall State	•

	: Andrew King (D-Wave, USA) - 15:00: Yariv Yanay (University of Maryland, USA)	О
	nential Quantum Advantage for Simulating Open Systems	U
•	– 15:15: Beatriz Pérez González (University of Augsburg, Germany)	0
	tum origin of anomalous Floquet phases in cavity-QED materials	•
	– 15:30: Patrick Lenggenhager (Max Planck Institute for the Physics of Complex Systems, Germany)	О
	h-scale sensitivity of quantum mutual information variants	
_	– 15:45: Eyal Buks (Technion, Israel)	О
Exper	imentally testing the spontaneous disentanglement hypothesis using a magnetic resonator	
16:15	– 17:00: Coffee Break / Poster Session / Exhibition	
	strial Forum (Day 1)	
	: Silvano de Franceschi (CEA/UGA, France)	K
	– 09:30: Andreas Bengtsson (Google Inc, USA) tum error correction below the threshold	K
	– 10:00: Jelena Trbovic (QuantrolOx, Finland)	K
	erating the Development of Quantum Computers through Automation	K
	1 – 10:30: Yonatan Cohen (Quantum Machines, Israel)	K
	esearch Driving Hybrid Control Technology Towards Useful Quantum Computing	IX.
	– 10:50: Aleksandra Soltamova (Qblox BV, The Netherlands)	ı
	ble Quantum Control: Advancing Fidelity and Integration with Qblox	•
Julian	ore quantum control havanong hacity and meegration with quiek	
10:50	– 11:30: Coffee Break / Poster Session / Exhibition	
Chair		_
	1 – 11:45: Rustin Nourshargh (Oxford Ionics, UK)	0
	ble, high-fidelity all-electronic control of trapped-ion qubits	1/
	- 12:15: Maud Vinet (Quobly, France)	K
	pean strategy to scale up semiconductor spin qubits – 13:15: Round table 1	
12.13	- 13.13. Round table 1	
13:15	– 14:45: Lunch Break	
	: TBD	
	- 15:05: Raphael Khan (Bluefors, Finland)	ı
	characterisation in Bluefors cryogenic measurement systems	
	- 15:25: Pau Jorba (Kiutra, Germany)	I
	erating cryogenic testing and characterization of quantum materials and devices with fast and easy-to-us	se
cryos	– 15:45: Florian Froning (Zurich Instruments, Switzerland)	
	time feedback at scale: From mid-circuit measurements to QEC	'
illear (time recuback at scare. From this circuit measurements to QEC	
16:00	– 17:00: Coffee Break / Poster Session / Exhibition	
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	: TBD	,
	1 – 17:20: Borja Aizpurua (Multiverse Computing & DIPC, Spain)	1
	verse Computing: News on Quantum Al	
	– 17:40: Anurag Saha Roy (Qruise, Germany) ine Learning based Automated Calibration & Characterisation for Quantum Devices	1
	= 17:55: Andreas Fyrillas (Quandela, France)	0
	Fidelity Quantum Operation of Photonic Circuits with Resource-efficient Machine-learning-assisted	U
	talk Mitigation	
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Chair: Pascale Senellart-Mardon (C2N/University Paris Saclay, France) 09:00 – 09:30: Immanuel Bloch (Max-Planck Institute of Quantum Optics, Germany) Quantum Simulation and Quantum Computing with Fermions	K
09:30 – 09:45: Xin Zhang (Delft University of Technology, The Netherlands)	0
Quantum simulation of a spin ladder using germanium quantum dots 09:45 – 10:00: Dorothee Tell (Max Planck Institute of Quantum Optics, Germany)	0
Quantum simulation in a cold-atom Fermi-Hubbard system	Ĭ
10:00– 10:15: Jaka Vodeb (Jozef Stefan Institute, Slovenia)	0
Stirring the false vacuum via interacting quantized bubbles on a 5,564-qubit quantum annealer 10:15 – 10:30: Luis Canonico (ICN2, Spain)	0
Real-space Calculation of Orbital Responses in Disordered Materials	Ü
10:30– 11:00: Coffee Break / Poster Session / Exhibition	
Chair: Immanuel Bloch (Max-Planck Institute of Quantum Optics, Germany) - TBC	
11:00 – 11:30: Antoine Georges (Collège de France, France)	K
Machine Learning and Neural Networks for Quantum Systems	
11:30 – 12:00: Natalia Ares (Oxford University, UK) Fully machine learning-driven control and characterisation of quantum devices	I
12:00 – 12:30: Pascale Senellart-Mardon (C2N/University Paris Saclay, France)	K
Hybrid photonic quantum computing with semiconductor quantum dots.	
12:30 – 13:00: Vladimir M. Shalaev (Purdue University, USA) Silicon Quantum Photonics	I
13:00 – 14:00: Cocktail Lunch (offered by the organizers) 14:00 – 14:30: Poster Session II	
// Workshop PhD Students	
Parallel session - PhD Student I	
Chair : Silvano de Franceschi (CEA/UGA, France)	
14:30 – 14:40: Pierre Cussenot (CEA - IPhT, France) Uniting Quantum Processing Nodes of Cavity- coupled Ions with Rare-earth Quantum Repeaters Using Single-	0
photon Pulse Shaping Based on Atomic Frequency Comb	
14:40 – 14:50: Anthony Gandon (ETH Zurich, Switzerland)	0
Quantum computing in spin-adapted representations for efficient simulations of spin systems	
14:50 – 15:00: Ilija Nikolov (Brown University, USA)	_
Enhanced Sensitivity with Spin-Squeezed States for Probing Ground State Electronic Order	0
Enhanced Sensitivity with Spin-Squeezed States for Probing Ground State Electronic Order 15:00 – 15:10: Hubert Lam (Centre de Nanosciences et de Nanotechnologies (C2N), France)	0
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15:00 – 15:10: Hubert Lam (Centre de Nanosciences et de Nanotechnologies (C2N), France) Wigner function Reconstruction of Non-Gaussian Superposition States emitted from a Quantum Dot 15:10 – 15:20: Alessandro Irace (University Milano Bicocca, Italy) Synthetic-lattice Bloch wave dynamics in a single-mode microwave resonator 15:20 – 15:30: Alexandre May (CEA/Alice&Bob, France) Noise Mitigation in Single Mirowave Photon Detection by Repeated Quantum Measurements 15:30 – 15:40: Yann Portella (C2N, Université Paris-Saclay, CNRS, France) A QKD-oriented tuning toolbox for photon number statistics with semiconductor quantum dots 15:40 – 15:50: Simon Sundelin (Chalmers University of Technology, Sweden) Quantum refrigeration powered by noise in a superconducting circuit 15:50 – 16:00: Christopher Waas (QuTech / TU Delft, The Netherlands) A Quantum Network Node based on the Tin-Vacancy Center in Diamond	0 0 0 0

14:40 – 14:50: Lucas Araujo Oliveira Sotero Silva (Chimie ParisTech, PSL University, CNRS, Institut de Recher	
de Chimie Paris, France) Towards Integrated Quantum Interface with Rare-Earth Ion-Doped Thin Film	0
14:50 – 15:00: Etienne Bargel (C2N, France)	0
Coherent generation of Fock-encoded superposition states by realistic QD-based emitters	
15:00 – 15:10: David Caldevilla (Materials Physics Center, Spain)	0
Experimental observation of Multiple Andreev Reflection at the interface with a spin-split superconductor	•
15:10 – 15:20: Maarten Kamphuis (University of Twente, The Netherlands)	0
Induced superconductivity in epitaxial superconductor/TCI bilayer devices 15:20 – 15:30: Jorge Martínez Romeral (Catalan Institute of nanoscience and nanotechnology (ICN2), Spain)	0
Dynamical control of topological properties in 2D quantum matter	O
15:30 – 15:40: Sebastian Miles (TU Delft, The Netherlands)	0
Braiding Majoranas in linear quantum dot-superconductor arrays: Mitigating Coulomb repulsion and residua	al
tunneling	
15:40 – 15:50: Nadav Orion (Technion – Israel Institute of Technology, Israel)	0
Topological Aspects of Quantum Entanglement in Two Qubit Systems	_
15:50 – 16:00: Mio Poortvliet (Leiden Institute of Physics , The Netherlands)	0
Pulsed to continuous wave coherent micropillar cavity-quantum dot dynamics	0
16:00 – 16:10: Justin Schirmann (Institut Néel - CNRS, France) Geometry-Enforced Topology in Amorphous Chiral Metals	0
Geometry-Emorced Topology in Amorphous Chiral Wetais	
Parallel session - PhD Student III	
Chair : Adolfo G. Grushin (Institut Néel / CNRS, France)	
14:30 – 14:40: Arnab Adhikary (Leibniz University of Hannover, Germany)	0
Counterintuitive yet efficient regimes for measurement-based quantum computation on symmetry protecte	ed .
spin chains	
14:40 – 14:50: Francesco Adinolfi (Paul Scherrer Institute, Switzerland)	0
Enhancing the coherent-state lifetime of a Kerr-cat qubit through leakage suppression	
14:50 – 15:00: Linus Andersson (Chalmers University of Technology, Sweden)	0
Direct detection of quasiparticle tunneling with a charge-sensitive transmon coupled to a waveguide	_
15:00 – 15:10: Dario Denora (TU Delft, The Netherlands)	0
A three-dimensional array of quantum dots	0
15:10 – 15:20: David Fernández-Fernández (ICMM - CSIC, Spain) Effects of spin-orbit interaction on spin qubit shuttling	0
15:20 – 15:30: Pierre Hamonic (Institut Néel, France)	0
A foundry-fabricated spin qubit unit-cell with in-situ dispersive readout	Ü
15:30 – 15:40: Bohdan Khromets (Institute for Quantum Computing, University of Waterloo , Canada)	0
Exact voltage pulse engineering for the collective unitary control of semiconductor quantum dot spin qubit processor	ors
15:40 – 15:50: Domonkos Svastits (Budapest University of Technology and Economics, Hungary)	0
Readout sweet spots for spin qubits with strong spin-orbit interaction	
15:50 – 16:00: Thibaut Pollet (C2N, France)	0
Noise spectroscopy of micropillar based single-photon source	_
16:00 – 16:10: Maxime Thumin (Néel Institue CNRS, France)	0
Robustness of flat band superconductivity against disorder in the two-dimensional Lieb lattice	
Parallel session - PhD Student IV	
Chair: Gloria Platero Coello (ICMM-CSIC, Spain)	
14:30 – 14:40: Wael Ardati (CNRS Institut Néel, France)	0
Investigating Loss Mechanisms in Fluxonium protected from energy decay using bi-fluxon tunneling.	Ü
14:40 – 14:50: Maria Benito (IMB-CNM, Spain)	0
Weighting Coupling Strength of Superconducting CPW Resonators Characteristics	
14:50 – 15:00: Antoine Covolo (Collège de France, France)	Ο
Protecting collective-encoded qubits against non-Markovian dephasing	
15:00 – 15:10: Helio Huet (Paris-Saclay University, CNRS, C2N, France)	0
Deterministic and Reconfigurable Graph State Generation with a Solid-State Quantum Emitter	^
15:10 – 15:20: Pranjal Kapoor (Institute Neel, CNRS, France)	0
Electrically tunable Josephson parametric amplifier based on graphene Josephson junctions	

15:20 – 15:30: Elyjah Kiyooka (Lateqs/Pheliqs group, France)	0
Gate-tunable transmon qubit in 2-dimensional Germanium hole gas	0
15:30 – 15:40: Léo Noirot (CEA Grenoble, France) A hole spin flopping mode qubit: fast and coherent	0
15:40 – 15:50: David Rodriguez (CAB (CSIC-INTA), Spain)	О
Dispersive readout of electronuclear spin qudits with superconducting resonators	
15:50 – 16:00: Brennan Undseth (QuTech/TU Delft, The Netherlands)	0
Baseband Control of Single-electron Silicon Spin Qubits in Two-dimensions	0
16:00 – 16:10: Raphaël Rousset (Institut Néel, CNRS, France) Gate-tunable Josephson parametric amplifiers based on semiconductor nanowires	0
16:10 – 17:10: Coffee Break / Poster Session / Exhibition	
Industrial Forum (Day 2)	
Chair: TBD	0
09:00 – 09:15: Alexia Salavrakos (Quandela, France) An error-mitigated photonic quantum circuit Born machine	U
09:15 – 09:30: Felix Bussieres (ID Quantique, Switzerland)	О
Opportunities of photon-number resolution with SNSPDs to enable photonic quantum processors	
09:30 – 09:45: Boris Bourdoncle (Quandela, France)	0
Minimizing resource overhead in fusion-based quantum computation using hybrid spin-photon devices	_
09:45 – 10:00: Antonio Guardiani (Single Quantum, The Netherlands) Fast time-gated superconducting nanowire single-photon detectors (SNSPDs)	0
10:00 – 10:30: Round Table 2	
10:30– 11:00: Coffee Break / Poster Session / Exhibition	
Chair: Antonio Corcoles-Gonzalez (IBM, USA) - TBC 11:00 – 11:15: Nikita Astrakhantsev (Google Quantum AI, USA)	0
Benchmarking the 69-qubit superconducting chip in the analog regime	Ü
11:15 – 11:30: Marc de Voogd (Delft Circuits, The Netherlands)	О
Scalable i/o solutions for addressing 1000+ qubits: Proven capabilities and future directions	
11:30 – 11:45: Jonathan Reiner (Quantum Machines, Israel)	0
Tightly integrating a GPU and a QPU for fast calibration of multi-qubit circuits 11:45 – 12:00: Matthew Weaver (QphoX, The Netherlands)	0
Optical Interfaces for Scalable Qubit Operation	U
12:00 – 12:15: Kirsten Bark (HQS Quantum Simulations, Germany)	О
Demonstration of system-bath physics on a gate-based quantum computer	
12:15 – 12:30: Narendra Hegade (Kipu Quantum, Germany)	О
Digitized counterdiabatic quantum critical dynamics 12:30 – 12:45: Ariane Soret (Quandela, France)	0
Quantum Energetic Advantage in Boson Sampling	U
12:45 – 13:00: Zahra Sadre Momtaz (TNO Netherlands Organization for Applied Scientific Research, The Netherlands)	О
Fabrication and Characterization of Micrometer-thin Diamond Platelets for Open Microcavities	
13:00 – 14:00: Cocktail Lunch (offered by the organizers)	
14:00 – 14:30: Poster Session II	
Chair: TBD	
14:30 – 15:00: Antonio Corcoles-Gonzalez (IBM, USA)	K
The path to advantage with Quantum Centric Supercomputing 15:00 – 15:15: Vladyslav Bohun (Haiqu Inc., Ukraine)	0
Scalable and shallow quantum circuits encoding probability distributions informed by asymptotic entanglement analysis.	
15:15 – 15:30: Amin Hosseinkhani (IQM Quantum Computers, Germany)	0
Noise-Robust Estimation of Quantum Observables in Noisy Hardware	
15:30 – 16:30: Round Table 3	

16:30 – 17:15: Coffee Break / Poster Session / Exhibition

Friday (23/05/2025)

Chair: Mete Atature (University of Cambridge, UK)	
09:00 – 09:30: Marcel Franz (University of British Columbia, Canada)	I
Persistent spin currents in superconducting altermagnets	
09:30 – 10:00: Yasunobu Nakamura (University of Tokyo, Japan)	K
High-fidelity gates and readout for superconducting quantum process	ors
10:00– 10:45: Coffee Break	
Chair: Yasunobu Nakamura (University of Tokyo, Japan)	
10:45 – 11:15: Mete Atature (University of Cambridge, UK)	I
A Many-Body Quantum Memory Using Optically Engineered Nuclei	
11:15 – 11:30: Victor Roman-Rodriguez (ICFO, Spain)	0
Ultrastrong coupling and mechanical non-linearities at the zero-point	motion level
11:30 – 11:45: Dongkeun Ki (The University of Hong Kong, Hong Kong	SAR) O
Coulomb drag and interlayer coupling in quantum moiré materials	
11:45 – 12:15: Patrice Bertet (CEA Paris-Saclay, France)	I
Nuclear spin qubits with coherence exceeding seconds	
12:15 – 12:45: Benjamin Sacepe (Institut Néel - CNRS, France)	1
Chiral supercurrent in quantum Hall Josephson junctions	

12:45: Closing & QUANTUMatter2026 announcement