



## 30th International Conference on Low Temperature Physics

7-13 August 2025, Bilbao, Spain

### Thursday, 7 August, Day 1

12h00	Arrival and registration
14h15	Auditorium Level 4
14h15	Opening
	<b>Award of Fritz London Memorial Prize. Presenter Pertti Hakonen</b>
14h30	(14h30-15h15) Robert Hallock, <i>Helium: Thin Films and Solids</i>
15h15	(15h15-16h00) John Saunders, <i>Quantum Materials and Sensors into the Microkelvin Regime</i>
16h00	(16h00-16h45) Ali Yazdani, <i>Emergent quantum phenomena under the microscope</i>

### 16h45-17h15 Coffee break

17h15	<b>Award of Simon Memorial Prize. Presenter Andrew Armour</b> (17h15-18h00) Adiel Stern, <i>Fractional Quantum Hall States and Fractional Chern Insulators - A Unified View</i>
18h00	<b>Award of Olli V. Lounasmaa Memorial Prize. Chair Mika Sillanpää</b> (18h00-18h45) Andrew N. Cleland, <i>Quantum acoustics: Manipulating individual phonons</i>

### 18h45-20h00 Welcome reception

## Friday, 8 August, Day 2

	Auditorium level 4 (900)
	<b>Plenary session 1. Chair: Michele Modugno</b>
<b>09h00</b>	(09h00-09h45) Francesca Ferlaino, <i>Supersolids in Magnetic Gases: From Roton Softening to Quantum Vortices</i>
<b>09h45</b>	(09h45-10h30) Leticia Tarruell, <i>Probing supersolidity through excitations in a spin-orbit-coupled Bose-Einstein condensate</i>

10h30-11h00 Coffee break and exhibition

	Semiplenary Session 1	
	Auditorium level 4. Chair: Fernando Luis	Luxua 1 level 3. Chair: Alfredo Levy Yeyati
<b>11h00</b>	(11h00-11h35) Tom Manovitz, <i>Quantum coarsening and criticality on a programmable quantum simulator</i>	(11h00-11h35) Amir Yacoby, <i>Local Probes of Spin Excitations in Quantum Matter</i>
<b>11h35</b>	(11h35-12h10) Mikko Möttönen, <i>Millikelvin electronics for quantum computing and sensing</i>	(11h35-12h10) Shahal Ilani, <i>The Quantum Twisting Microscope: Visualizing Waves in Quantum Matter</i>

12h10-12h15 Room change to parallel sessions

## Friday, 8 August, Morning Parallel Sessions

Room 1B level 5 8.PS1.1 Superfluid helium-I Chair: R. Hallock	Luxua 1 level 3 8.PS1.2 Nickelates-I Chair: Y. Maeno	Auditorium 8.PS1.3 UTe <sub>2</sub> -I Chair: J. P. Paglione	Room 1A level 5 8.PS1.4 Strongly correlated magnets-I Chair: V. Taufour	Luxua 2 level 3 8.PS1.5 Topology and quantum materials-I Chair: C. Dean	Room 2 level 5 8.PS1.6 Superconducting properties and devices Chair: V. Madhavan	Room level 2 8.PS1.7 Electron interactions and quantum interference Chair: Sh. Ilani	Room 3 level 5 8.PS1.8 Superconducting quantum circuits-I Chair: N. Roch	Room 4 level 5 8.PS1.9 Low temperature instrumentation & applications-I Chair: B. Kalisky
(12h15-12h40). 8.PS1.1.1. Jere Mäkinen <i>Time crystal optomechanics</i>	(12h15-12h40) 8.PS1.2.1. J. Zhao <i>Superconductivity in pressurized trilayer nickelate single crystals</i>	(12h15-12h40) 8.PS1.3.1. J. P. Brison <i>Field and Pressure- induced Superconducting Phases in UTe<sub>2</sub></i>	(12h15-12h40) 8.PS1.4.1. F. Assaad <i>Dimensional mismatch Kondo systems</i>	(12h15-12h40) 8.PS1.5.1. A. Grushin <i>Enforcing topology in non-crystalline metals</i>	(12h15-12h40) 8.PS1.6.1. R. Shaikhaidarov <i>Development of superconducting Bloch Transistor.</i>	(12h15-12h40) 8.PS1.7.1. M. Hashisaka <i>Mach-Zehnder interference of fractionalized electron-spin excitations</i>	(12h15-12h40) 8.PS1.8.1. I. Pop <i>Superconducting Qubits Resilient to Tesla-Scale Magnetic Fields</i>	(12h15-12h40) 8.PS1.9.1. S. de Graaf <i>In-situ structural and chemical identification of material defects in superconducting quantum circuits at mK temperatures</i>
(12h40-12h55) 8.PS1.1.2 C. Uriarte <i>Quantum Turbulence in <sup>4</sup>He Characterized by a Superconducting Levitator Probe</i>	(12h40-12h55) 8.PS1.2.2. S. Onari <i>Analysis of non- fermi-liquid transport phenomena in thin- film bilayer nickelate La<sub>3</sub>Ni<sub>2</sub>O<sub>7</sub></i>	(12h40-12h55) 8.PS1.3.2. Arthur Carlton-Jones <i>Microwave Electrodynamics and Low-Energy Excitations of Superconducting UTe<sub>2</sub></i>	(12h40-12h55) 8.PS1.4.2. K. Povarov <i>Pressure-induced ordering in the gapped quantum magnet DTN</i>	(12h40-12h55) 8.PS1.5.2. L. Luszynski <i>Effect of uniaxial stress on the magnetostriiction of Weyl semimetal TaAs</i>	(12h40-12h55) 8.PS1.6.2. T. Domanski <i>Non-equilibrium signatures of electron pairing in quantum dots coupled to superconductors</i>	(12h40-12h55) 8.PS1.7.2. V. Kashcheyevs <i>Evidence of Coulomb liquid phase in a few- electron droplets</i>	(12h40-12h55) 8.PS1.8.2. H. Bohuslavskyi <i>Superconducting- transistor technology based on CVD graphene: toward superconducting integrated circuits</i>	(12h40-12h55) 8.PS1.9.2. A. Sharma <i>Cryogenic SPM tools for magnetic imaging: MFM and NV magnetometry</i>
(12h55-13h10) 8.PS1.1.3 D. Schmoranzer <i>Discrete dissipation events measured with Si microwires in pure superfluid <sup>4</sup>He</i>	(12h55-13h10) 8.PS1.2.3. F-C. Zhang <i>Self-doped molecular Mott insulator for superconducting La<sub>3</sub>Ni<sub>2</sub>O<sub>7</sub></i>	(12h55-13h10) 8.PS1.3.3. T. Vasina <i>Identicality of the High-Field and High- Pressure Superconducting Phases in UTe<sub>2</sub></i>	(12h55-13h10) 8.PS1.4.3. K. Panda <i>Raman spectroscopy of the magnetic coupling in Gd-i-MAX</i>	(12h55-13h10) 8.PS1.5.3. Y. Dagan <i>Enhanced Nonlinear Response by Manipulating the Dirac Point at the (111) LaTiO<sub>3</sub>/SrTiO<sub>3</sub> Interface</i>	(12h55-13h10) 8.PS1.6.3. J. Shen <i>Evidence of p-wave Pairing in K<sub>2</sub>Cr<sub>3</sub>As<sub>3</sub> Superconductors from Phase-sensitive Measurement</i>	(12h55-13h20) 8.PS1.7.2. A. Chubukov <i>Isospin orders and superconductivity in graphene multilayers</i>	(12h55-13h10) 8.PS1.8.3. E. Mukhanova <i>1/f phase noise in traveling wave parametric amplifier</i>	(12h55-13h10) 8.PS1.9.3. A. Noah <i>Nanoscale magnetic effects in the 2D magnet CrGeTe<sub>3</sub></i>
(13h10-13h25) 8.PS1.1.4 A. Ghosh <i>Wigner crystallization on curved surfaces: collapsing multielectron bubbles in liquid He<sup>4</sup> and He<sup>3</sup></i>	(13h10-13h25) 8.PS1.2.4 M. Naamneh <i>Pi/4 phase shift in the anisotropic magnetoresistance of infinite layer nickelates</i>	(13h10-13h25) 8.PS1.3.4 Suguru Hosoi <i>Presence/absence of point nodes revealed by thermal conductivity in UTe<sub>2</sub></i>			(13h10-13h25) 8.PS1.6.4 J. Ortuzar <i>Revealing inter-band electron pairing in a superconductor with spin-orbit coupling</i>		(13h10-13h25) 8.PS1.8.4 Y-Ch. Chang <i>Towards ultra strong- coupling quantum thermodynamics using a superconducting flux qubit</i>	(13h10-13h25) 8.PS1.9.4 Kamal Brahim <i>Measurements into the Single Photon Regime in Ferroelectric Materials</i>

13h25-14h00 Lunch

**14h00-15h45 Poster session.**

	Semiplenary Session 2	
	Auditorium level 4. Chair Eli Zeldov	Luxua 1 level 3. Chair Nacho Pascual
<b>15h45</b>	(15h45-16h20) Long Ju, <i>Fractional Quantum Anomalous Hall Effect and Chiral Superconductivity in Graphene</i>	(15h45-16h20) Vidya Madhavan, <i>Vector Magnetic Field Response of Superconductivity and Charge Density Wave in UTe<sub>2</sub></i>
<b>16h20</b>	(16h20-16h55) Chun Ning (Jeanie) Lau, <i>Quantum Geometry and Screening of Flat Band Superconductivity in Twisted Bilayer Graphene</i>	(16h20-16h55) Beena Kalisky, <i>Imaging Quantum Materials</i>

**16h55-17h25 Coffee break**

## Friday, 8 August, Afternoon Parallel Sessions

Room 1B level 5 8.PS2.1. Superfluid $^3\text{He}$ Chair: J. Mäkinen	Room level 2 8.PS2.2. Quantum gases Chair: L.H. Kendrick	Luxua 1 level 3 8.PS2.3. Iron based superconductors Chair: F. Massee	Luxua 2 level 3 8.PS2.4. Thin films and interfaces-I Chair: N. Trivedi	Auditorium 1 8.PS2.5. Correlations and graphene Chair: E. Bascones	Auditorium 2 8.PS2.6. Topology and Quantum Materials-II Chair: A. Grushin	Room 1A level 5 8.PS2.7. Superconductivity, Spin orbit coupling and diode effects. Chair: A. Di Bernardo	Room 2 level 5 8.PS2.8. Thermal effects and heat transport Chair: Ch. Strunk	Room 3 level 5 8.PS2.9. Superconducting quantum circuits-II Chair: I. Pop	Room 4 level 5 8.PS2.10. LT Detectors-I Chair: M. Sillanpää
(17h25-17h50). 8.PS2.1.1. Samuli Autti <i>QUEST-DMC: Looking for Low Mass Dark Matter using Superfluid <math>^3\text{He}</math></i>	(17h25-17h50). 8.PS2.2.1. Yuki Kawaguchi <i>Dynamics of one-dimensional spinless fermions coupled with dynamical axion fields</i>	(17h25-17h50). 8.PS2.3.1. M. Allan <i>What limits the critical temperature for superconductivity in quantum materials?</i>	(17h25-17h50). 8.PS2.4.1. C.-z. Chang <i>Interface-Induced Superconductivity in Quantum Anomalous Hall Insulators</i>	(17h25-17h50). 8.PS2.5.1. E. Zeldov <i>Visualizing isospin order and exchange interactions in rhombohedral graphene</i>	(17h25-17h50). 8.PS2.6.1. J. Haruyama <i>Pseudo Tunnel Magnetoresistance Behaviours in Large- twist vdW Integration of Thin Magnetic Layers <math>\text{Fe}_3\text{GeTe}_2</math></i>	(17h25-17h50). 8.PS2.7.1. N. Pascual <i>A nanoscale Cooper pair tunneling diode</i>	(17h25-17h50). 8.PS2.8.1. I. Maasilta <i>Low-temperature heat transfer across vacuum via acoustic phonon tunneling</i>	(17h25-17h50). 8.PS2.9.1. N. Roch <i>Josephson meta- materials: a new platform for quantum optics</i>	(17h25-17h50). 8.PS2.10.1. S. Grohmann <i>Gravitational-wave detectors cooled with superfluid helium – GRAVITHELIUM</i>
(17h50-18h05) 8.PS2.1.2 J. W. Scott <i>Modelling the influence of structural anisotropy on superfluid helium- 3 in aerogel</i>	(17h50-18h05) 8.PS2.2.2. A. Iononi <i>Dimer problem on a spherical surface</i>	(17h50-18h05) 8.PS2.3.2. Y. Liu <i>Pair density wave and modulation state in a monolayer high-T<sub>c</sub> iron- based superconductor</i>	(17h50-18h05) 8.PS2.4.2. N. Kang <i>Observation of a twofold anisotropy in ultrathin <math>\text{Mo}_2\text{C}</math> superconducting crystals</i>	(17h50-18h05) 8.PS2.5.2. R. L. Lee <i>Charge Sensing of Fractional Quantum Hall States in Graphene</i>	(17h50-18h05) 8.PS2.6.2. Y. Nagai <i>Self-Learning Monte Carlo Method with Equivariant Transformer</i>	(17h50-18h05) 8.PS2.7.2. M. Eto <i>Enhanced Superconducting Diode Effect Utilizing Quantum Dot</i>	(17h50-18h05) 8.PS2.8.2. T. Yamamoto <i>Quantum heat transport across a Josephson junction</i>	(17h50-18h05) 8.PS2.9.2. Z. Peng <i>Experimental realization of on-chip few-photon control around exceptional points</i>	(17h50-18h05) 8.PS2.10.2. D. Helis <i>A Superconducting Qubit as an Underground Particle Detector</i>
(18h05-18h20) 8.PS2.1.3 J. Knapp <i>Evidence for Many Body Localization of <math>^3\text{He}</math> atoms in two dimensions</i>	(18h05-18h20) 8.PS2.2.3. Jacques Tempere <i>Polarons as probes of superfluid and supersolid phases in quantum gases</i>	(18h05-18h20) 8.PS2.3.3. M. K. Wu <i>Correlation between Fe- vacancy and superconductivity in <math>K_2\text{Fe}_{4+x}\text{Se}_5</math> crystals</i>	(18h05-18h20) 8.PS2.4.3. J. Zhang <i>Stacking-selective self-intercalation in <math>\text{Nb}_{1+x}\text{Se}_2</math></i>	(18h05-18h20) 8.PS2.5.3. K. Nakazawa <i>Theory of nonlinear Shubnikov-de Haas effect.</i>	(18h05-18h30) 8.PS2.6.3. C. Rogero <i>Epitaxial vdW Heterostructures with Magnetic Transition Metal Dihalides as a Universal Platform for Investigation of the Quantum Effects</i>	(18h05-18h30) 8.PS2.7.3. I. Tokatly <i>Effective field theory for coupled charge and spin transport in mesoscopic superconductors</i>	(18h05-18h20) 8.PS2.8.3. Y. Tokura <i>Quantum Heat Transport across Capacitively Coupled Quantum Dots</i>	(18h05-18h20) 8.PS2.9.3. A. Parra-Rodríguez <i>Exact and dispersive models for superconducting networks</i>	(18h05-18h20) 8.PS2.10.3. A. D'Addabbo <i>The monolithic arrays of the BULLKID-DM Kinetic Inductance Detectors searching for light Dark Matter</i>
(18h20-18h45) 8.PS2.1.4 A. Vorontsov <i>Modeling superfluid <math>\text{He-3}</math> in anisotropic aerogel</i>	(18h20-18h45) 8.PS2.2.4. Fernando Sols <i>Superfluidity from correlations in driven boson systems</i>	(18h20-18h45) 8.PS2.3.4. H. H. Wen <i>Small Fermi energy and unique vortex bound states in iron-based superconductors</i>	(18h20-18h45) 8.PS2.4.4. Thilo Bauch <i>Quasiparticle Spectroscopy using a YBCO Transmon</i>	(18h20-18h45) 8.PS2.5.4. V. Geshkenbein <i>Abrikosov vortices switching Josephson current in magic angle graphene</i>	(18h30-18h55) 8.PS2.6.4. Chuan Li <i>Multi-channel second-order topological states in <math>\text{Bi}_{0.97}\text{Sb}_{0.03}</math></i>	(18h30-18h55) 8.PS2.7.4. D. Kochan <i>Magnetoelectric phenomena of non- centrosymmetric superconductors – supercurrent diode effect and anisotropic vortex squeezing</i>	(18h20-18h45) 8.PS2.8.4. E. Lee <i>Joule spectroscopy and thermal effects in hybrid superconductor- semiconductor nanodevices</i>	(18h20-18h45) 8.PS2.9.4. Malika Randeria <i>Decoherence in fluxonium: a case study in superconducting qubit design</i>	(18h20-18h45) 8.PS2.10.4. S. Fu <i>Recent results from CUORE and path towards CUPID</i>
(18h45-19h00) 8.PS2.1.5 A. Lopez-Eiguren <i>Numerical simulations of superfluid <math>^3\text{He}</math></i>	(18h45-19h10) 8.PS2.3.5. S. Mandal <i>The Interplay of Electron Correlation, El.-Phonon Coupling, and non trivial topology for Enhancing Superconductivity in <math>\text{FeSe/SrTiO}_3</math></i>	(18h45-19h10) 8.PS2.4.5. A. Di Bernardo <i>Gate control of supercurrents: from earlier evidence to technological applications</i>	(18h45-19h10) 8.PS2.5.5. Cory Dean <i>Studies of electron viscosity in graphene - quantitative measurement from magnetocconductance in Corbino</i>	(18h55-19h20) 8.PS2.6.5. Lin Jiao <i>Realizing a topological diode effect on SmB6</i>	(18h55-19h20) 8.PS2.7.5. S. Matsuo <i>Superconducting diode effect in coherently coupled Josephson junctions</i>	(18h45-19h10) 8.PS2.8.5. G. Finkelstein <i>Electrical and thermal properties of the superconductor – quantum Hall interfaces</i>	(18h45-19h10) 8.PS2.9.5. Y. Zhong <i>Low-loss interconnects for modular superconducting quantum processors and beyond</i>	(18h45-19h00) 8.PS2.10.5. S. Quitadamo <i>First detection of marine microseismic activity with the CUORE ton-scale milliKelvin macro- calorimeters array</i>	

Institute of Physics, Chinese Academy of Sciences Alumni Reception, at the Torre restaurant, 7<sup>th</sup> floor, from 19 to 22 h.

## Saturday, 9 August

Auditorium level 4 (900)	
Plenary session 1. Chair Naoto Nagaosa	
<b>09h00</b>	(09h00-09h45) Lieven Vandersypen, <i>Quantum computation and simulation with electrons</i>
<b>09h45</b>	(09h45-10h30) Andrea Young, <i>Superconductivity and magnetism in rhombohedral graphene multilayers</i>

10h30-11h00 Coffee break and exhibition

Semiplenary Session 3		
	Auditorium level 4. Chair John Saunders	Luxua 1 level 3. Chair Hermann Suderow
<b>11h00</b>	(11h00-11h35) Petri J. Heikkinen, <i>QUEST-DMC: The first-order phase transition in superfluid helium-3</i>	(11h00-11h35) J. C. Seamus Davis, <i>Imaging Superconductive Topological Surface Band and Spin Triplet Order Parameter of UTe<sub>2</sub></i>
<b>11h35</b>	(11h35-12h10) Wei Guo, <i>Recent progress in probing vortex dynamics and developing quantum information platforms</i>	(11h35-12h10) Peter Hirschfeld, <i>Overdoped cuprates: disorder, inhomogeneity, Homes scaling and all that</i>

12h10-12h15 Room change to parallel sessions

## Saturday, 9 August, Morning Parallel Sessions

Room 1B level 5 9.PS3.1. Superfluid Helium-II Chair: P. Heikkinen	Luxua 1 level 3 9.PS3.2. Superc. non-equilibrium and fluctuations Chair: W. Guo	Auditorium level 4 9.PS3.3. Cuprates I Chair: Mo. Randeria	Luxua 2 level 3 9.PS3.4. Unconventional superconductivity Chair: Xianhui Chen	Room 1A level 5 9.PS3.5. Correlated materials-I Chair: A. McCollam	Room 2 level 5 9.PS3.6. Quantum Hall Chair: R. Seoane	Room 3 level 5 9.PS3.7. Quantum Transport-I Chair: Chuan Li	Room 4 level 5 9.PS3.8. Novel and hybrid quantum platforms-I Chair: F. González Zalba	Room level 2 9.PS3.9. Superconducting devices Chair: E. Lee
(12h15-12h40) 9.PS3.1.1. Jack Harris <i>New results on magnetically levitated drops of superfluid helium</i>	(12h15-12h40) 9.PS3.2.1. P. Armitage <i>Energy relaxation and dynamics in strongly correlated materials</i>	(12h15-12h40) 9.PS3.3.1. Y. Peng <i>Electron-Phonon Coupling and Superconducting Gap Symmetry in High-Tc Cuprates</i>	(12h15-12h40) 9.PS3.4.1. Z.X. Shen <i>Unconventional Superconductivity in Cuprates – Strides Made and Challenges Remain</i>	(12h15-12h40) 9.PS3.5.1. V. Taufour <i>Giant field induced unconventional anomalous Hall conductivity in the non-centrosymmetric Weyl metal CeCoGe<sub>3</sub></i>	(12h15-12h40) 9.PS3.6.1. F. Pierre <i>Observation of the scaling dimension of fractional quantum Hall anyons</i>	(12h15-12h40) 9.PS3.7.1. Tingxin Li <i>Fractional quantum anomalous Hall effect and competing quantum phases in twisted MoTe<sub>2</sub></i>	(12h15-12h40) 9.PS3.8.1. Erika Kawakami <i>Floating Electrons Coupled to Resonators</i>	(12h15-12h40) 9.PS3.9.1. N. Paradiso <i>2D arrays of φ0-Josephson junctions</i>
(12h40-13h05) 9.PS3.1.2. D. E. Zmeev <i>Superflow on the scale of a coherence length</i>	(12h40-13h05) 9.PS3.2.2. P. W. Phillips <i>Solving the Mott Problem</i>	(12h40-13h05) 9.PS3.3.2. J. Tallon <i>Questioning the cuprate paradigm - absence of superfluid density loss in overdoped cuprates</i>	(12h40-12h55) 9.PS3.4.2. Y. Aoki <i>Search for Symmetry-Enforced Dirac Points via Magnetoresistance Quantum Oscillations in Non-Symmorphic Type-I Superconductor beta-IrSn<sub>4</sub></i>	(12h40-12h55) 9.PS3.5.2. E. Maniv <i>Dark Metastable Conduction Channels near a Metal-Insulator Transition</i>	(12h40-12h55) 9.PS3.6.2. O. Maillet <i>Charge equilibration in counter-propagating quantum Hall channels coupled via Landauer reservoirs</i>	(12h40-12h55) 9.PS3.7.2. A. Braggio <i>Thermoelectric detection in hybrid and quantum nanodevices</i>	(12h40-12h55) 9.PS3.8.2. Natalia Morais <i>Rydberg Tomography of Electrons on Helium in a Linear Microtrap</i>	(12h40-12h55) 9.PS3.9.2. Xiaoying Xu <i>Signature of chiral superconductivity evidenced in mesoscopic superconductors</i>
(13h05-13h30) 9.PS3.1.3. Y. Sasaki <i>Macroscopic Orbital Supercurrent along the Edge of Chiral Domain in Chiral Superfluid <sup>3</sup>He</i>	(13h05-13h20) 9.PS3.2.3. J. Luo <i>Unconventional coherence peak in cuprate superconductors</i>	(13h05-13h20) 9.PS3.3.3. C-H. Chung <i>A mechanism for quantum-critical Planckian metal phase in high-temperature cuprate superconductors</i>	(12h55-13h10) 9.PS3.7.1. T. Singar <i>Lifshitz transition observed through vortex core spectroscopy in Bi-2212 superconductor</i>	(12h55-13h10) 9.PS3.5.3. L. Hao <i>Atomically controlled insulator-to-metal transition in strongly correlated iridate/manganite heterostructures</i>	(12h55-13h10) 9.PS3.6.3. Ky. Kim <i>Fractional Quantum Hall Levitons</i>	(12h55-13h10) 9.PS3.7.3. T. Kato <i>Microscopic Theory of Spin Current Generation by Chiral Phonons</i>	(12h55-13h10) 9.PS3.8.3. M. Freeman <i>Progress Towards a Low Temperature Superfluid 4He Josephson Junction using 2D Nanoporous Materials</i>	(12h55-13h10) 9.PS3.9.3. A. Mozes <i>Microwave assisted scanning tunneling microscopy to probe local complex impedance of unconventional superconductors</i>
			(13h10-13h25) 9.PS3.4.4. Lev V Levitin <i>Identification of topological superconductivity in YbRh<sub>2</sub>Si<sub>2</sub></i>	(13h10-13h25) 9.PS3.5.4. M. Zhu <i>Continuum excitations in a triangular-lattice spin supersolid</i>			(13h10-13h25) 9.PS3.8.4. Camryn Underhultz <i>Decoherence of Surface Phonons in a Quantum Acoustic System</i>	(13h10-13h25) 9.PS3.9.4. P. Rout <i>Induced Superconductivity in Topological Phase of ZrTe<sub>5</sub></i>

13h25-14h00 Lunch

**14h00-15h45 Poster session**

<b>Semiplenary Session 4</b>		
	<b>Auditorium level 4. Chair: Lieven Vandersypen</b>	<b>Luxua 1 level 3. Chair Peter Hirschfeld</b>
<b>15h45</b>	(15h45-16h20) William Oliver, <i>Emulating the Bose-Hubbard Model with Arrays of Superconducting Qubits</i>	(15h45-16h20) Erez Berg, <i>Exotic Superconductivity in Graphene Multilayers</i>
<b>16h20</b>	(16h20-16h55) Daniel Loss, <i>Spin Qubits in Semiconductors for Scalable Quantum Computers</i>	(16h20-16h55) Roser Valenti, <i>The revival of Fe-based superconductors: cascades of screening processes and their implications</i>

**16h55-17h25 Coffee**

## Saturday, 9 August, Afternoon Parallel Sessions

Room level 2 9.PS4.1. Theory and other condensates Chair: L. Tarruell	Room 1B level 5 9.PS4.2. Quantum turbulence-I Chair: X. Rojas	Audit 1 level 4 9.PS4.3. Graphene and twisted systems-I Chair: E. Berg	Audit 2 lev. 4 9.PS4.4. UTe <sub>2</sub> -II Chair: D. Aoki	Luxua 1 level 3 9.PS4.5. Spin chains, chiral magnets and superconductivity Chair: C. Rogero	Luxua 2 level 3 9.PS4.6. Spin Ice and magnetic textures Chair: Y. B. Kim	Room 1A level 5 9.PS4.7. Graphene and bound states at surfaces Chair: A. Young	Room 2 level 5 9.PS4.8. Josephson Physics Chair: V. Chandrasekhar	Room 3 level 5 9.PS4.9. Superconducting quantum circuits-III Chair: E. Kawakami	Room 4 level 5 9.PS4.10. LT instrumentation and applications-II Chair: S. Grohmann
(17h25-17h50). 9.PS4.1.1. Jordi Boronat <i>Self-bound clusters of ultracold polar molecules</i>	(17h25-17h50). 9.PS4.2.1. L. Galantucci <i>Quantum vortices leave a macroscopic signature in the thermal background</i>	(17h25-17h50). 9.PS4.3.1. E. Bascones <i>Heavy fermions and cascades in twisted bilayer graphene: new results</i>	(17h25-17h50). 9.PS4.4.1. JP. Paglione <i>Key issues in understanding the superconductivity of UTe<sub>2</sub></i>	(17h25-17h50). 9.PS4.5.1. N. Lorente <i>Topological Character of Cr Spin Chains on Bi<sub>2</sub>Pd</i>	(17h25-17h50). 9.PS4.6.1. S. Raymond <i>Uncommon magnetic order in the hyperkagome system Yb<sub>3</sub>Ga<sub>5</sub>O<sub>12</sub></i>	(17h25-17h50). 9.PS4.7.1. Chunli Huang <i>Momentum-Space AC Josephson Effect and Intervalley Coherence in Multilayer Graphene</i>	(17h25-17h50). 9.PS4.8.1. M. Houzet <i>Josephson quantum mechanics at odd parity</i>	(17h25-17h50). 9.PS4.9.1. Angela Kou <i>Using disordered superconductors to build qubits</i>	(17h25-17h50). 9.PS4.10.1. D. H. Nguyen <i>Advancing sensitive measurement techniques for the study of quantum materials at ultralow temperatures</i>
(17h50-18h05) 9.PS4.1.2. Alberto Vilhois <i>Breakdown of Superfluidity in Two-Dimensional Dipolar Bose-Einstein Condensates</i>	(17h50-18h15) 9.PS4.2.2. Andrei Golov <i>Quantum Turbulence Sampled by 1-6 μm Particles Down to the T = 0 Limit</i>	(17h50-18h05) 9.PS4.3.2. D. Zhang <i>DC and AC Josephson effects in twisted cuprate bicrystals</i>	(17h50-18h05) 9.PS4.4.2. A. Kreisel <i>Detecting the nodal superconducting gap structure and topological surface states of UTe<sub>2</sub> with QPI</i>	(17h50-18h05) 9.PS4.5.2. Y. Masaki <i>Phase Transitions in Quantum Monoaxial Chiral Magnets under Tilted Magnetic Fields</i>	(17h50-18h05) 9.PS4.6.2. M. Gomilsek <i>Anisotropic Spin Dynamics in Centrosymmetric Skyrmiion Host Gd<sub>2</sub>PdSi<sub>3</sub></i>	(17h50-18h05) 9.PS4.7.2. M. Banerjee <i>Graphene antidot in quantum Hall states</i>	(17h50-18h05) 9.PS4.8.2. F. J. Matute <i>Quantum circuits with multiterminal Josephson-Andreev junctions</i>	(17h50-18h05) 9.PS4.9.2. Xi Chen <i>Optimal Control and Shortcuts to Adiabaticity for Fast Qubit Readout in Circuit Quantum Electrodynamics</i>	(17h50-18h05) 9.PS4.10.2. Y. Fujii <i>Development of Simultaneous Detection Method of Millimeter-Wave Electron Spin Resonance and Electrically-Detected Magnetic Resonance Signals of Phosphorous-doped Si</i>
(18h05-18h20) 9.PS4.1.3. L. Melnikovski <i>Quantized Vortices in Multi-Component Superfluids</i>	(18h15-18h30) 9.PS4.2.3 Ken Obara <i>Superfluid Suction Vortex Generated by Fountain Effect</i>	(18h05-18h30) 9.PS4.3.3. N. Krane <i>Engineering and Exploring Spin Excitations and Correlations in Open-Shell Nanographene Systems</i>	(18h05-18h30) 9.PS4.4.3. B. Ramshaw <i>Searching for topological superconductivity in UTe<sub>2</sub> using ultrasound</i>	(18h05-18h20) 9.PS4.5.3. Hao Zheng <i>Spectroscopy on superconductor carrying a supercurrent</i>	(18h05-18h20) 9.PS4.6.3. F. Morineau <i>Satisfaction and violation of the fluctuation-dissipation relation in spin ice</i>	(18h05-18h30) 9.PS4.7.2. K. Franke <i>Wave-function engineering of Yu-Shiba-Rusinov states from magnetic atoms and molecules on superconductors</i>	(18h05-18h20) 9.PS4.8.3. E. Sonin <i>Theory of Planar Ballistic SNS Junctions at T = 0</i>	(18h05-18h30) 9.PS4.9.3. P. Sethi <i>Scalable Fabrication of High-Performance Superconducting Qubits Using Native-Oxide Passivated Trilayer Junctions</i>	(18h05-18h20) 9.PS4.10.3. Shuheng Pan <i>Development of an Ultra-Low Temperature High Magnetic Field Dual-Axle Rotational Scanning Tunneling Microscope</i>

Conference dinner at 20h00

## Sunday, 10 August

	Auditorium level 4
	Plenary session 3. Chair: Paul C. Canfield
<b>09h30</b>	(09h30-10h15) Claudia Felser, <i>Chirality, Topology, and Spin-Orbit Interactions in Quantum Materials</i>
<b>10h15</b>	(10h15-11h00) Wolfgang Wernsdorfer, <i>Advancements in Cryogenics for Quantum Technologies: Scaling the Cold Frontier</i>

**11h00-11h30 Coffee break and exhibition**

	Semiplenary Session 5	
	Auditorium level 4. Chair Sebastian Bergeret	Luxua 1 level 3. Chair Fernando Luis
<b>11h30</b>	(11h30-12h05) Jagadeesh Moodera, <i>Superconductors with Broken Symmetry: Majorana Bound States and Nonreciprocal Current Flow Phenomena in Superconductor-Ferromagnet Proximity Coupled Systems for Collective Quantum Technology</i>	(11h30-12h05) Natalia Ares, <i>Machine learning-based control and characterisation of quantum devices</i>
<b>12h05</b>	(12h05-12h40) Stuart Parkin, <i>Magnetic Tunnel Junctions and Josephson junctions using 2D van der Waals layers</i>	(12h05-12h40) Meng Wang, <i>High-temperature superconductivity in the Ruddlesden-Popper phase of nickelates</i>
<b>12h40</b>	(12h40-13h15) Seigo Tarucha, <i>High-Fidelity Qubit Gates and Phase Noise in Silicon Multi-qubit Devices</i>	(12h40-13h15) Elena Hassinger, <i>Mysteries of the two-phase superconductor CeRh<sub>2</sub>As<sub>2</sub></i>
<b>13h15</b>	(13h15-13h50) Jukka P. Pekola, <i>Superconducting circuits as a platform for quantum thermodynamics experiments</i>	(13h15-13h50) Maia G. Vergniory, <i>The topological revival of Fe-based superconductors</i>

No lunch box will be offered this day. Time for networking, see also [recommended excursions](#).

# Monday, 11 August

Auditorium level 4	
Plenary session 4. Chair James Sauls	
09h00	(09h00-09h45) Päivi Törmä, <i>Quantum Geometry and Superconductivity</i>
09h45	(09h45-10h30) Dai Aoki, <i>Spin-Triplet Superconductivity under Extreme Conditions in UTe<sub>2</sub></i>

10h30-11h00 Coffee break and exhibition

Semiplenary Session 6		
	Auditorium level 4. Chair Hongki Xu	Luxua 1 level 3. Chair Roser Valenti
11h00	(11h00-11h35) Benjamin Sacépé, <i>Chiral supercurrent in quantum Hall Josephson junctions</i>	(11h00-11h35) Jiangping Hu, <i>Loop Current Order in Strongly Correlated Systems</i>
11h35	(11h35-12h10) Klaus Ensslin, <i>Graphene quantum devices</i>	(11h35-12h10) Naoto Nagaosa, <i>Nonreciprocal transport and diode effect in superconductors</i>

12h10-12h15 Room change to parallel sessions

## Monday, 11 August, Morning Parallel Sessions

Room 1A level 5 11.PS5.1 He nanomechanics Chair: W. Halperin	Auditorium level 4 11.PS5.2 Topological superconductivity-I Chair: G. Pasquini	Luxua 1 level 3 11.PS5.3 Superconductivity and magnetism (COST superqumap.eu) Chair: W. Lang	Luxua 2 level 3 11.PS5.4 Magnons and superconductivity Chair: R. López	Room 1B level 5 11.PS5.5 Kagome magnets Chair: J. Nagl	Room 2 level 5 11.PS5.6 2D and quasi-2D Materials Chair: P. Giraldo	Room 3 level 5 11.PS5.7 Correlated and low dimensional systems Chair: P. Burset	Room level 2 11.PS5.8 Novel and hybrid platforms-II Chair: G. Platero	Room 4 level 5 11.PS5.9 Thermometry and refrigeration techniques- I Chair: H. Fukuyama
(12h15-12h40). 11.PS5.1.1. V. Tsepelin <i>Interaction of NEMS with a Quantum Vortex in Superfluid-4</i>	(12h15-12h40). 11.PS5.2.1. Y. Tanaka <i>Theory of full counting statistics in unconventional superconductor junctions</i>	(12h15-12h40). 11.PS5.3.1. P. Samuely <i>Ising superconductivity in bulk 4H<sub>a</sub>-NbSe<sub>2</sub></i>	(12h15-12h40). 11.PS5.4.1. M. J. Martínez <i>From Cavity - QED to Van der Waals - QED: magnons instead of photons</i>	(12h15-12h40). 11.PS5.5.1. S. Suetsugu <i>Gapless spin excitations and gapped magnetization plateau phases in a spin-1/2 perfect kagome antiferromagnet</i>	(12h15-12h40). 11.PS5.6.1. H. Bouchiat <i>Probing orbital currents in 2D materials</i>	(12h15-12h40). 11.PS5.7.1. A. A. Aligia <i>Topological quantum phase transition transition to a "non-Landau" Fermi liquid in a two-channel spin-1 anisotropic Kondo model and its experimental relevance</i>	(12h15-12h40). 11.PS5.8.1 M. Urdampilleta <i>A foundry-fabricated spin qubit unit-cell with in-situ dispersive readout</i>	(12h15-12h40). 11.PS5.9.1. Ch. Dimas <i>Thermal Spectrometer for Superconducting Circuits</i>
(12h40-12h55) 11.PS5.1.2. Riku Rantanen <i>Engineering topology in a superfluid through nanoscale confinement</i>	(12h40-12h55) 11.PS5.2.2. H. Takahashi <i>Pressure-Induced Structural Anomaly in the Dirac Line-Nodal Material CaSb<sub>2</sub></i>	(12h40-12h55) 11.PS5.3.2. J. Custers <i>Evidence for Coexistence of Magnetism and Superconductivity in Ce<sub>3</sub>PtIn<sub>11</sub></i>	(12h40-12h55) 11.PS5.4.2. S. Catalano <i>EuS Interfaces for Low Temperature Spintronics</i>	(12h40-12h55) 11.PS5.5.2. Z.A. Xu <i>Giant Anomalous Hall Effect in Kagome Nodal Surface Semimetal Fe<sub>3</sub>Ge</i>	(12h40-12h55) 11.PS5.6.2. Ch. Zhou <i>Mapping the Mott and Generalized Wigner Crystal States in Twisted Bilayer MoS<sub>2</sub> by Quantum Well Resonant Tunneling Spectroscopy</i>	(12h40-12h55) 11.PS5.7.2. T. Novotny <i>Double quantum dot Andreev molecules: numerical phase diagrams, critical evaluation of effective models, and identification of microscopic mechanisms</i>	(12h40-12h55) 11.PS5.8.2 Federico Fedele <i>Spin mechanical coupling and self-oscillations in a carbon nanotube electromechanical resonator</i>	(12h40-12h55) 11.PS5.9.2. J. Häntinen <i>Nb-based tunnel junction refrigerators</i>
(12h55-13h20) 11.PS5.1.3. Oleg Kirichek <i><sup>4</sup>He and <sup>3</sup>He – <sup>4</sup>He mixture films studied by neutron reflectometry</i>	(12h55-13h10) 11.PS5.2.3. N. Poniatowski <i>Detecting induced unconventional superconductivity with cQED</i>	(12h55-13h10) 11.PS5.3.3. P. Szabo <i>Disorder- and magnetic field-tuned fermionic superconductor-insulator transition in MoN thin films. Transport and STM studies.</i>	(12h55-13h10) 11.PS5.4.3. L. Hao <i>Atomically controlled insulator-to-metal transition in strongly correlated iridate/manganite heterostructures</i>	(12h55-13h10) 11.PS5.5.3. M. Kato <i>Magnetism of novel kapellasite-type kagome antiferromagnet InCu<sub>3</sub>(OH)6Cl<sub>3</sub></i>	(12h55-13h10) 11.PS5.6.3. E. Henriquez <i>Biaxial Compressive Strain Tuning of Quantum Properties in 2D Materials</i>	(12h55-13h10) 11.PS5.7.3. J. M. Torres <i>K-P model for moiré exciton trapping and polarization</i>	(12h55-13h10) 11.PS5.8.3 Claudio Bonizzoni <i>Perfect Absorption of Single-Photons for Quantum Technologies</i>	(12h55-13h10) 11.PS5.9.3. D. Lvov <i>Thermometry Based on a Superconducting Qubit</i>
	(13h10-13h25) 11.PS5.2.4. R. Okugawa <i>Gapless topological superconducting phases in two-dimensional quasicrystals</i>	(13h10-13h25) 11.PS5.3.4. V. Fomin <i>Superconductor 3D Nanoarchitectures: A Playground for Novel Quantum Phenomena</i>	(13h10-13h25) 11.PS5.4.4. A. Badreldin <i>A 200-mm Superconducting Platform for the Microwave Characterization of Magnetic Materials at Low Temperature</i>		(13h10-13h25) 11.PS5.6.4. M. R. Calvo <i>Strain Engineering of Magnetoresistance and Magnetic Anisotropy in CrSBr</i>	(13h10-13h25) 11.PS5.7.4. K. I. Wysokinski <i>Hubbard and correlated-hopping interactions in a quantum dot coupled to four or two terminals: non-linear transport coefficients and rectification of charge and heat currents.</i>	(13h10-13h25) 11.PS5.8.4 Carolina Del Río <i>Remote polariton-polariton interactions mediated by superconducting circuits for quantum applications</i>	(13h10-13h25) 11.PS5.9.4. L. Wang <i>Normal metal Coulomb Blockade Thermometer below 10 mK</i>

**13h25-14h00 Lunch**

**14h00-15h45 Poster session**

<b>Semiplenary Session 2</b>		
	<b>Auditorium level 4. Chair J.C. Séamus Davis</b>	<b>Luxua 1 level 3. Chair William Oliver</b>
<b>15h45</b>	(15h45-16h20) Eun-Ah Kim, <i>Data-centric Approach to Quantum Materials using AI</i>	(15h45-16h20) Sebastian Will, <i>Molecular Quantum Liquids</i>
<b>16h20</b>	(16h20-16h55) Paul C. Canfield, <i>Collapsed tetragonal phase transitions as canaries</i>	(16h20-16h55) Dafei Jin, <i>Noise-resilient solid host for electron qubits above 100 mK</i>

**16h55-17h25 Coffee**

## Monday, 11 August, Afternoon Parallel Sessions

Room 1A level 5 11.PS6.1 Superfluid Helium-III Chair: V. Tsepelin	Auditorium1 level 4 11.PS6.2 Nickelate, Kagome and other topical superconductors Chair: P. Szabo	Auditorium2 level 4 11.PS6.3 Collective modes and Quantum criticality Chair: H. Yuan	Luxua1 level 5 11.PS6.4 Vortex lattices and nanostructures (COST superqumap.eu) Chair: P. Samuely	Luxua2 level 5 11.PS6.5 Correlated materials-II Chair: M. Menghini	Room 1B level 5 11.PS6.6 Magnetism and Exotic Spin States Chair: S. Raymond	Room 2 level 5 11.PS6.7 Quantum Transport-II Chair: M.J. Martinez	Room 3 level 5 11.PS6.8 Superconducting devices/van der Waals materials Chair: H. Bouchiat	Room level 2 11.PS6.9 QC with semiconductor circuits Chair: A. Kou	Room 4 level 5 11.PS6.10 Thermometry and refrigeration techniques-II Chair: A. Camón
(17h25-17h50). 11.PS6.1.1. W. Halperin <i>Magnetic susceptibility enhancement of superfluid <math>^3\text{He-B}</math> in anisotropic confinement</i>	(17h25-17h50). 11.PS6.2.1. D. Feng <i>Electronic, magnetic and optical properties of the nickelate superconductors.</i>	(17h25-17h50). 11.PS6.3.1. M. Randeria <i>Andreev versus Tunneling Spectroscopy in Unconventional Flat Band Superconductors</i>	(17h25-17h50). 11.PS6.4.1. G. Pasquini <i>Exploring the interplay between nematicity and superconductivity</i>	(17h25-17h50). 11.PS6.5.1. H-Y. Kee <i>Microscopic Roadmap to a Kitaev-Yao-Lee Spin-Orbital Liquid</i>	(17h25-17h50). 11.PS6.6.1. J. Nagl <i>Ground-State Selection and Braided Ising Spin-Tubes in a new Family of Breathing Kagome Magnets</i>	(17h25-17h50). 11.PS6.7.1. R. López <i>Quantum Kinetic Uncertainty Relations in Mesoscopic Conductors at Strong Coupling</i>	(17h25-17h50). 11.PS6.8.1. P. Burset <i>Single-Electron Charge Pulses in Superconducting Devices</i>	(17h25-17h50). 11.PS6.9.1. G. Burkard <i>The singlet-triplet and exchange-only flopping-mode spin qubits</i>	(17h25-17h50). 11.PS6.10.1. H. Fukuyama <i>The Continuous Sub-millikelvin Refrigerator</i>
(17h50-18h15) 11.PS6.1.2. Priya Sharma <i>Towards a micromechanical qubit based on quantized oscillations in superfluid helium</i>	(17h50-18h05) 11.PS6.2.2. Q. Niu <i>Nematicity and orbital current order probed by transverse resistivity in Kagome metal thin flakes</i>	(17h50-18h05) 11.PS6.3.2. H. Watanabe <i>Theory of BCS-BEC Crossover in Strongly Correlated Electron Systems</i>	(17h50-18h05) 11.PS6.4.2. A. Palau <i>Field-Induced Phase Transitions in Cuprate Superconductors for Cryogenic in-Memory Computing</i>	(17h50-18h05) 11.PS6.5.2. S. Mishra <i>Simultaneous optical and thermodynamic investigation of <math>\text{Ca}_2\text{Ru}_2\text{O}_7</math></i>	(17h50-18h05) 11.PS6.6.2. K. Aoyama <i>Asymmetric spin-wave dispersion in a triple-Q chiral state of a breathing-kagome antiferromagnet</i>	(17h50-18h05) 11.PS6.7.2 Yu. Makhlin <i>Planar topological-insulator based Josephson junctions and Majorana zero modes</i>	(17h50-18h05) 11.PS6.8.2. M. Moskalets <i>An e-h superposition created on demand</i>	(17h50-18h05) 11.PS6.9.2. I. Fernández de Fuentes <i>Running a six-qubit algorithm on a silicon spin qubit array</i>	(17h50-18h05) 11.PS6.10.2. Y. Shimura <i>Application of Adiabatic Demagnetization Refrigeration by Enlarged <math>\text{YbCu}_x\text{Ni}</math> Alloy under Sub-Kelvin Temperature Region</i>
(18h15-18h40) 11.PS6.1.3. X. Rojas <i>Novel platforms for superfluid optomechanics</i>	(18h05-18h20) 11.PS6.2.3. X. Feng <i>Rotational symmetry breaking within the fully-gapped superconducting state in kagome metal <math>\text{CsV}_3\text{Sb}_5</math></i>	(18h05-18h20) 11.PS6.3.3. S. Trivini <i>Role of Superconductor/graphene interface conductance in proximity effect</i>	(18h05-18h20) 11.PS6.4.3. W. Lang <i>Tailoring Vortex Behavior in High-Tc Superconductors via Periodic Defects Created by Focused Helium Ion Beams</i>	(18h05-18h20) 11.PS6.5.3. T. Mito <i>Origin of Low-Temperature Magnetic Fluctuations in Kondo Insulator <math>\text{SmB}_6</math> studied by 10B- and 11B-NMR measurements</i>	(18h05-18h20) 11.PS6.6.3. S. A. Zvyagin <i>High-field magnetic properties of the alternating ferro-antiferromagnetic spin-1/2 chain compound <math>\text{Cu}_2(\text{OH})_3\text{Br}</math></i>	(18h05-18h20) 11.PS6.7.3. L. Magazzù <i>Thermal rectification in a qubit-oscillator system</i>	(18h05-18h20) 11.PS6.8.3. M. Ilyn <i>Epitaxial Van der Waals Heterostructures</i>	(18h05-18h20) 11.PS6.9.3. K. Castoria <i>Single Surface-Electron Sensing and CMOS Control Above 1 Kelvin</i>	(18h05-18h20) 11.PS6.10.3. J. Kölling <i>Accelerating cryogenic testing and characterization of quantum materials and devices with novel ADR cryostats</i>
(18h40-19h05) 11.PS6.1.4 P. Stasiak <i>Experimental and theoretical evidence of universality in vortex reconnections</i>	(18h20-18h45) 11.PS6.2.4 Xianhui Chen <i>Superconductivity and density wave transition in Ruddlesden-Popper phase nickelates</i>	(18h20-18h45) 11.PS6.3.4 D. Manske <i>Higgs Spectroscopy of Superconductors</i>	(18h20-18h45) 11.PS6.4.4 M. Milošević <i>Advances in multiphysics simulations of superconducting electronics</i>	(18h20-18h45) 11.PS6.5.4 Y. Fasano <i>How do atomic defects alter the electronic properties of Fe-based superconductors?</i>	(18h20-18h45) 11.PS6.6.4 Y. B. Kim <i>Fractionalized excitations and emergent photons in dipolar-octupolar quantum spin ice</i>	(18h20-18h45) 11.PS6.7.4 R. Seoane <i>Towards Ideal Supercurrent Rectification in Josephson Junctions</i>	(18h20-18h45) 11.PS6.8.4 G. Chen <i>Correlated and topological states in ABC-stacking multilayer graphene</i>	(18h20-18h45) 11.PS6.9.4 F. Gonzalez Zalba <i>A quantum processor based on silicon spin qubits</i>	(18h20-18h45) 11.PS6.10.4 M. Klüger <i>Frustrated magnets for milli-Kelvin refrigeration</i>
	(18h45-19h10) 11.PS6.2.5 M. Isobe <i>Crystal Growth of Nickelates for Potential High-Tc Superconductors</i>	(18h45-19h10) 11.PS6.3.5. F. Massee <i>Hund's assisted multi-channel quantum phase transition in <math>\text{Fe}(\text{Se},\text{Te})</math></i>	(18h45-19h10) 11.PS6.4.5. D. Popović <i>Persistence of Vortexlike Phase Fluctuations in Underdoped to Heavily Overdoped Bi-2201 Cuprates</i>	(18h45-19h10) 11.PS6.5.5. A. McCollam <i>Fermi surface reconstruction and non-Fermi liquid behavior near the ferromagnetic quantum phase transition in <math>\text{Fe}(\text{Ga}_{1-x}\text{Ge}_x)\text{3}</math></i>	(18h45-19h00) 11.PS6.6.5. S. D. Nabi <i>Magnetic phase diagram and model Hamiltonian of <math>\text{Cs}_2\text{RuO}_4</math></i>	(18h45-19h10) 11.PS6.7.4 K-H Chiang <i>Dual-qubit heat valve: an experimental study on collective quantum heat transport</i>	(18h45-19h10) 11.PS6.8.5. Wei Li <i>Interplay between Stripe-like Charge orders, Electronic Correlation and Majorana Bound States in 2M-WS<sub>2</sub></i>	(18h45-19h00) 11.PS6.9.5. Elizaveta Morozova <i>Onset of a quantum phase transition in a germanium quantum dot ladder</i>	(18h45-19h10) 11.PS6.10.5. D. Szewczyk <i>Heat Capacity Investigations of Benzene Derivatives: Exploring the Mechanism Behind Glassy Anomalies in Quasiplanar Molecular Crystals</i>

## Tuesday, 12 August

Auditorium level 4	
Plenary session 4. Chair Jean Pascal Brison	
09h00	(09h00-09h45) Joseph Checkelsky, <i>Natural Superlattice Materials and Modulated Superconductivity</i>
09h45	(09h45-10h30) Xingjiang Zhou, <i>Laser ARPES on Pairing Symmetry and High-T<sub>c</sub> Origin in High Temperature Superconductors</i>

10h30-11h00 Coffee break and exhibition

Semiplenary Session 6		
	Auditorium level 4. Chair Makoto Tsubota	Luxua 1 level 3. Chair Benjamin Sacépé
11h00	(11h00-11h35) JP Davis, <i>Superfluid <sup>3</sup>He Electromechanics</i>	(11h00-11h35) Ramón Aguado, <i>Novel qubits based on hybrid semiconductor-superconductor Josephson junctions</i>
11h35	(11h35-12h10) Yong-Hamb Kim, <i>Magnetic microcalorimeters for large-scale astroparticle physics applications</i>	(11h35-12h10) Christoph Strunk, <i>Berezinski-Kosterlitz-Thouless transition in strongly disordered NbN films close to the localization threshold</i>

12h10-12h15 Room change to parallel sessions

## Tuesday, 12 August, Morning Parallel Sessions

Room 1A level 5 12.PS7.1. Quantum turbulence II Chair: J. Taniguchi	Auditorium level 3 12.PS7.2. Kagome SC Chair: H. H. Wen	Luxua1 level 4 12.PS7.3. Thin film and interfaces-II (COST superqumap.eu) Chair: J. Custers	Luxua2 level4 12.PS7.4. Correlated materials- III Chair: Y. Fasano	Room 1B level 5 12.PS7.5. Strongly correlated magnets-II Chair: F. Assaad	Room 2 level 5 12.PS7.6. Physical Effects in Nanoscale and Quantum Materials Chair: G. Katsaros	Room 3 level 5 12.PS7.7. Josephson and hybrid superconducting systems Chair: M. Houzet	Room level 2 12.PS7.8. Novel and hybrid platforms-III Chair: M. Urdampilleta	Room 4 level 5 12.PS7.9. Thermometry and refrigeration techniques-III Chair: M. A. Ramos
(12h15-12h40). 12.PS7.1.1. Ryuji Nomura <i>Quantum Dripping of Superfluid Pendant Droplets</i>	(12h15-12h40). 12.PS7.2.1 R. Tazai Multi-stage Phase Transitions and Non-Reciprocal Transport in Kagome Superconductors AV <sub>3</sub> Sb <sub>5</sub>	(12h15-12h40). 12.PS7.3.1 F. Lombardi <i>Ground State Engineering in Ultrathin YBCO via Nanostructured Surfaces: Enhanced Superconductivity, Nematicity, and Unidirectional Charge Order</i>	(12h15-12h40). 12.PS7.4.1 M. Menghini <i>Mott resistive switching in an antiferromagnetic insulator initiated by topological defects</i>	(12h15-12h40). 12.PS7.5.1 G. Causer <i>One-dimensional magnetic soliton layers in a cubic chiral magnet</i>	(12h15-12h40). 12.PS7.6.1 Ma. Naka <i>Spin-splitting and cross-correlation in altermagnets</i>	(12h15-12h40). 12.PS7.7.1 V. Chandrasekhar <i>Searching for signatures of non-trivial topology in diffusive, multiterminal Josephson junctions</i>	(12h15-12h40). 11.PS7.8.1. G. Platero <i>Topological edge states for quantum information transfer</i>	(12h15-12h40). 12.PS7.9.1 J. Huang <i>Development of a new magnetic refrigeration method for achieving low temperatures below one-Kelvin without using the helium-3</i>
(12h40-12h55) 12.PS7.1.2 H. Takeuchi <i>Eccentric fractional skyrmions from quantum Kelvin-Helmholtz instability</i>	(12h40-12h55) 12.PS7.2.2 B.-C. Lin <i>Spin-polarized p-wave superconductivity in the kagome material RbV<sub>3</sub>Sb<sub>5</sub></i>	(12h40-12h55) 12.PS7.3.2 Yufan Li <i>Determination of spin-triplet superconductivity with phase-sensitive experiments</i>	(12h40-12h55) 12.PS7.4.2 V. F. Mitrović <i>Orbital glass conceals missing magnetic entropy in a relativistic Mott insulator</i>	(12h40-12h55) 12.PS7.5.2 G. Kaur <i>Magnetoelastic dynamics in Spin-Jahn-Teller driven antiferromagnet: CoTi<sub>2</sub>O<sub>5</sub></i>	(12h40-12h55) 12.PS7.6.2 R. Dolleman <i>Continuous sub-millikelvin cooling of nanoelectronic devices using a Wigner crystal</i>	(12h40-12h55) 12.PS7.7.2 M. Ferrier <i>Supercurrent noise in a phase-biased superconductor-normal ring in thermal equilibrium</i>	(12h40-12h55) 11.PS7.8.2. Pomaransk David <i>Time-bin architecture for electronic qubits with quantum-Hall edge channels</i>	(12h40-12h55) 12.PS7.9.2 S. Guo <i>Quantum Fluctuation enhanced Millikelvin Magnetic Refrigeration in Triangular Lattice Magnet</i>
(12h55-13h10) 12.PS7.1.3 Yosuke Minowa <i>Kelvin wave excitation on quantized vortices in superfluid helium</i>	(12h55-13h10) 12.PS7.2.3 S. Yonezawa <i>Field-angle-resolved calorimetry of the pristine and Nb-substituted CsV<sub>3</sub>Sb<sub>5</sub> Kagome superconductors</i>	(12h55-13h10) 12.PS7.3.3 Che-H Ku <i>Point-contact Andreev-reflection spectroscopy of compressed superconducting thin flakes inside a diamond anvil cell</i>	(12h55-13h10) 12.PS7.4.3 C. Lee <i>Odd-parity itinerant antiferromagnets by space group symmetry</i>	(12h55-13h10) 12.PS7.5.3 K. Fukui <i>Unveiling new magnetic phases in 3D extended Kitaev models</i>	(12h55-13h10) 12.PS7.6.3 A. Delattre <i>Low temperature fluctuations of a mesoscopic mechanical mode</i>	(12h55-13h10) 12.PS7.7.3 J. A. Moreno <i>Feedback driven Josephson microscope</i>	(12h55-13h10) 11.PS7.8.3. Li Lu <i>Experimental exploration of the Fu-Kane scheme of topological quantum computation</i>	(12h55-13h10) 12.PS7.9.3 Clement Geffroy <i>An ultra-compact dilution refrigerator for rapid quantum device characterization and education</i>
(13h10-13h25) 12.PS7.1.4 Igor Todoshchenko <i>Quantum fluctuations in helium adsorbed on nanotube</i>	(13h10-13h25) 12.PS7.2.4 H. Kontani <i>Unconventional density waves, exotic superconductivity and quantum criticality in kagome metals and bilayer nickelate superconductors</i>	(13h10-13h25) 12.PS7.3.4 K. Ienaga <i>Quantum and Thermal Fluctuations in Two-Dimensional Superconductors studied by the Nernst effect</i>	(13h10-13h25) 12.PS7.4.4 YM. Xie <i>Photon-drag photovoltaic effects and quantum geometric nature</i>	(13h10-13h25) 12.PS7.5.4 S. Gabani <i>Evidence for ferromagnetic formation in the heavy fermion metal CeB<sub>6</sub> with dynamic charge stripes</i>	(13h10-13h25) 12.PS7.6.4 Zh. Hu <i>Local Characterization of Electric Field Induced Dielectric Constant Changes in (Ba,Sr)TiO<sub>3</sub> Detected by Microwave Impedance Microscopy</i>	(13h10-13h25) 12.PS7.7.4 Andrei Mazanik <i>Interfacial spin-orbit coupling in superconducting hybrid systems</i>	(13h10-13h25) 11.PS7.8.4. Giacomo Marmorini <i>Spiral quantum state tomography of quantum many-body states and entanglement measurement</i>	(13h10-13h25) 12.PS7.9.4 A. Fefferman <i>Aluminum nuclear-demagnetization refrigerator for continuous cooling below 1 mK</i>

**13h25-14h00 Lunch**

**14h00-15h45 Poster session**

	Semiplenary Session 7	
	Auditorium level 4. Chair Floriana Lombardi	Luxua 1 level 3. Chair Richard Haley
<b>15h45</b>	(15h45-16h20) Rebeca Ribeiro, <i>Impact of the angular alignment on the crystal field and intrinsic doping of bilayer graphene/BN heterostructures</i>	(15h45-16h20) Makoto Tsubota, <i>Quantum Hydrodynamics and Turbulence: A Journey from Legacy to Future</i>
<b>16h20</b>	(16h20-16h55) Javad Shabani, <i>Gate-tunable Superconducting Diode Effect</i>	(16h20-16h55) Vladimir Eltsov, <i>Nanomechanical probes of vortex dynamics in quantum fluids</i>

**16h55-17h25 Coffee**

## Tuesday, 12 August, Afternoon Parallel Sessions

Room 1A level 5 12.PS8.1. Superfluid helium-IV Chair: M. Arrayas	Audit 1 level 4 12.PS8.2. Thin films and interfaces-III (COST superqumap.eu) Chair: Th. Bauch	Audit 2 level 4 12.PS8.3. Oxides and arsenides Chair: E. Hassinger	Luxua 1 level 5 12.PS8.4. Nickelates-II Chair: D. Feng	Luxua 2 level 5 12.PS8.5. Topological States, and Anomalous Hall Effect Chair: S. Suetzugu	Room 2 level 5 12.PS8.6. Topology and Quantum Materials-III Chair: J. Haruyama	Room 1B level 5 12.PS8.7. Topological and unconventional superconductivity Chair: Shujiu Wang	Room 3 level 5 12.PS8.8. Low dimensional systems Chair: Ma. Naka	Room level 2 12.PS8.9. Superconducting quantum circuits-IV Chair: G. Burkard	Room 4 level 5 12.PS8.10. LT detectors-II Chair: J. Huang
(17h25-17h50). 12.PS8.1.1. Junko Taniguchi <i>Property of superfluid and flow of <math>^4\text{He}</math> confined in a nanometer-sized channel</i>	(17h25-17h50). 12.PS8.2.1. M. Iavarone <i>Engineering Nb-Au Interfaces for Superconducting Qubits</i>	(17h25-17h50). 12.PS8.3.1. Y. Maeno <i>Bridging various strain-related responses of superconducting <math>\text{Sr}_2\text{RuO}_4</math></i>	(17h25-17h50). 12.PS8.4.1. K. Kuroki <i>Theoretical study on high <math>T_c</math> unconventional superconductivity in multilayer nickelates <math>\text{La}_3\text{Ni}_2\text{O}_7</math> and <math>\text{La}_2\text{Ni}_3\text{O}_{10}</math></i>	(17h25-17h50). 12.PS8.5.1. P. Giraldo <i>Fermiology of the charge density wave compound <math>\text{TaTe}_3</math>, and its signatures of non- trivial topological states</i>	(17h25-17h50). 12.PS8.6.1. Wei-Li Lee <i>Nonlinear and nonreciprocal transport effects in untwinned thin films of topological Weyl metal <math>\text{SrRuO}_3</math></i>	(17h25-17h50). 12.PS8.7.1. M. A. Cazalilla <i>Probing Magnetic and Triplet Correlations in Spin-Split Superconductors with Magnetic Impurities</i>	(17h25-17h50). 12.PS8.8.1. G. Katsaros <i>Charge and spin in planar Germanium</i>	(17h25-17h50). 12.PS8.9.1. S. Gasparinetti	(17h25-17h50). 12.PS8.10.1. S. Kubatkin <i>Sensing microwave photons with scalable epitaxial graphene bolometers</i>
(17h50-18h05) 12.PS8.1.2. Igor Zaliznyak <i>Bogolyubov- Feynman-Pitaevskii spectrum and decays of phonon-roton quasiparticles in superfluid helium</i>	(17h50-18h05) 12.PS8.2.2. N. Fridman <i>Anomalous Thickness Dependence of the Vortex Pearl Length in Few-Layer <math>\text{NbSe}_2</math></i>	(17h50-18h05) 12.PS8.3.2. I. Sochnikov <i>Superelastic Microstructures of Superconducting Strontium Titanate</i>	(17h50-18h05) 12.PS8.4.2. Y.-T. Hsu <i>Transport phase diagram and anomalous metallicity in superconducting infinite-layer nickelates</i>	(17h50-18h05) 12.PS8.5.2. H. Ishizuka <i>Chirality-related anomalous hall effect in pyrochlore magnets</i>	(17h50-18h05) 12.PS8.6.2. A. Devillez <i>Bond-dependent interactions and ill- ordered state in the honeycomb cobaltate <math>\text{BaCo}_2(\text{AsO}_4)_2</math></i>	(17h50-18h05) 12.PS8.7.2. V. Kornich <i>Non-Hermitian superconductivity: stability, generation and detection</i>	(17h50-18h05) 12.PS8.8.2. A. Hüttel <i>Transport spectroscopy of <math>\text{MoS}_2</math> nanotube quantum dots</i>	(17h50-18h05) 12.PS8.9.2. Shohei Miyakoshi <i>Advancing Quantum Circuit Optimization Through Density Matrix Renormalization Group Techniques</i>	(17h50-18h05) 12.PS8.10.2. K. Ramos <i>Development of photon detectors based on granular aluminum superconducting resonators</i>
(18h05-18h20) 12.PS8.1.3. Emil Varga <i>Decay of Two- Dimensional Quantum Turbulence</i>	(18h05-18h20) 12.PS8.2.3. M. Šindler <i>Vortex mass in high-<math>T_c</math> superconductors</i>	(18h05-18h30) 12.PS8.3.3. Changhee Lee <i>Superconductivity and Antiferromagnetism in <math>\text{CeRhAs}_2</math>: Unification through type-II van Hove singularity</i>	(18h05-18h20) 12.PS8.4.3. D. Yao <i>Models and superconductivity of bilayer and trilayer nickelate superconductors</i>	(18h05-18h20) 12.PS8.5.3. S. Chowdhury <i>Understanding the Quantum Anomalous Hall Effect (QAHF) in 2D-UOTe</i>	(18h05-18h20) 12.PS8.6.3. M. A. Ramos <i>Quest for amorphous superconductors of Bi-Sb alloys by irradiation with swift heavy ions</i>	(18h05-18h20) 12.PS8.7.3. C. González <i>Signatures of edge states in antiferromagnetic van der Waals Josephson junctions</i>	(18h05-18h20) 12.PS8.8.3. A. Loh <i>Microwave optomechanics with a carbon nanotube nano- electromechanical resonator</i>	(18h05-18h30) 12.PS8.9.3. S. Kono <i>Scalable Superconducting Circuit Optomechanics with Millisecond Quantum Coherence</i>	(18h05-18h20) 12.PS8.10.3. C. Pobes <i>Cryogenic radiation detectors base on Transition Edge Sensors</i>
(18h20-18h45) 12.PS8.1.4. Ladislav Skrbek <i>Critical Velocities in Flows of Superfluid <math>^4\text{He}</math></i>	(18h20-18h45) 12.PS8.2.4. M. Eschrig <i>Purely even harmonic Josephson currents due to crossed equal- spin pair transmission</i>	(18h30-18h55) 12.PS8.3.4. J. Landaeta <i>Quantum oscillations of <math>\text{Sr}_2\text{RuO}_4</math> under c- axis uniaxial stress</i>	(18h20-18h45) 12.PS8.4.4. H. Yuan <i>From Heavy Fermions to Nickelates: Superconductivity, Quantum Criticality, and Strange Metals</i>	(18h20-18h45) 12.PS8.5.4. N. Trivedi <i>Detection of anyon braiding through pump-probe spectroscopy</i>	(18h20-18h45) 12.PS8.6.4. M. Klanjsek <i>Kitaev and Dirac Quantum Spin Liquids in Honeycomb Magnets</i>	(18h20-18h45) 12.PS8.7.4. J. Klinovaja <i>From perfect to imperfect poor man's Majoranas in minimal Kitaev chains</i>	(18h20-18h45) 12.PS8.8.4. G. Csathy <i>Non-Coulombic Short-Range Potentials and Competing Orders in the Two-dimensional Electron Gas</i>	(18h30-18h55) 12.PS8.9.4. W. Poirier <i>A primary quantum current standard for the Ampere</i>	(18h20-18h45) 12.PS8.10.4. D.B. Tanner <i>Search for dark- matter axions</i>
(18h45-19h00) 12.PS8.1.5. L. Cavicchioli <i>Formation of Multiple Quantum Droplets through Capillary Instability</i>	(18h45-19h00) 12.PS8.2.5. M. Zgirski <i>A single superconducting vortex on a leash.</i>	(18h55-19h20) 12.PS8.3.5. H. M. Noad <i>Thermodynamic Measurements of <math>\text{Sr}_2\text{RuO}_4</math> under Uniaxial Stress</i>	(18h45-19h00) 12.PS8.4.5. D. Inoue <i>Unconventional SDW+CDW order and superconductivity in bilayer nickelate: intra/inter-layer bond- order fluctuations mediated pairing mechanism</i>	(18h45-19h00) 12.PS8.5.5. G. Gervais <i>Observation of Temperature- Independent Anomalous Hall Effect in Thin Bismuth from Near Absolute Zero to 300 K Temperature</i>					

# Wednesday, 13 August

		Auditorium level 4 (900)
		Plenary session 4. Chair Francisco (Paco) Guinea
09h00	(09h00-09h45) Jim Sauls, <i>The Left Hand of the Electron in Chiral Superfluids and Superconductors</i>	
09h45	(09h45-10h30) Pablo Jarillo Herrero, <i>The Magic of Moiré Quantum Matter</i>	

## 10h30-11h00 Coffee break and exhibition

Room 1A level 5 13.PS9.1. Interactions and condensates Chair: F. Sols	Luxua2 level 4 13.PS9.2. Cuprates-II Chair: M. Milosevic	Luxua1 level 4 13.PS9.3. Thin films and interfaces-IV Chair: S. Kubatkin	Auditorium level 3 13.PS9.4. Graphene and twisted systems-II Chair: D. Geshkenbein	Room 1B level 5 13.PS9.5. Topology and Quantum Materials-IV Chair: M. Vergniory	Room 2 level 5 13.PS9.6. Unconventional Effects in Superconducting Junctions Chair: T. Löfwander	Room 3 level 5 13.PS9.7. Topology and quantum transport Chair: M. A. Cazalilla	Room level 2 13.PS9.8. Quantum simulation Chair: W. Poirier	Room 4 level 5 13.PS9.9. Thermometry and refrigeration techniques-IV Chair: D. B. Tanner
(11h00-11h25). 13.PS9.1.1. Lev Haldar Kendrick <i>Emergent physics at ultralow temperatures in a Fermi-Hubbard quantum simulator</i>	(11h00-11h25). 13.PS9.2.1. J. Villegas <i>Persistent photoresponse of oxide superconductors</i>	(11h00-11h25). 13.PS9.3.1. J. Wang <i>Discovery of higher charge superconductivity beyond charge-2e Cooper pairs</i>	(11h00-11h25). 13.PS9.4.1. D. Efetov	(11h00-11h25). 13.PS9.5.1. M. Sato <i>Callan-Rubakov effects in topological insulators</i>	(11h00-11h25). 13.PS9.6.1. F. Qu <i>Boundary supercurrent and continuous non-integer Shapiro steps in NiTe<sub>2</sub>-based Josephson junctions</i>	(11h00-11h25). 13.PS9.7.1. C. Spanlatt <i>Electrical noise spectroscopy of magnons in a quantum Hall ferromagnet</i>	(11h00-11h25). 13.PS9.8.1. Yu-Ao Chen <i>Quantum Simulation with Ultracold Atoms</i>	(11h00-11h25). 13.PS9.9.1. R. Haley <i>Cooling nanoelectronic devices to the sub-mK regime</i>
(11h25-11h50) 13.PS9.1.2. Daniel Barredo <i>Exploring quantum magnetism with dipolar Rydberg atom arrays</i>	(11h25-11h50) 13.PS9.2.2 D. Leboeuf <i>Strange metal and spin fluctuations in cuprate superconductors</i>	(11h25-11h50) 13.PS9.3.2 X. Qiu <i>Visualization of skyrmion-superconducting vortex pairs in a chiral magnet-superconductor heterostructure</i>	(11h25-11h50) 13.PS9.4.2 F. Guinea <i>Superconductivity in graphene stacks</i>	(11h25-11h50) 13.PS9.5.2 M. Uchida <i>In-plane anomalous Hall effect in magnetic Weyl semimetal films</i>	(11h25-11h50) 13.PS9.6.2 P. Hakonen <i>Experiments on 1/f noise in normal and superconducting low-dimensional conductors</i>	(11h25-11h50). 13.PS9.7.2. A. Levy Yeyati	(11h25-11h50) 13.PS9.8.2 Haohua Wang <i>Multiquibit superconducting platform for simulating quantum many-body physics</i>	(11h25-11h50) 13.PS9.9.2 A. Casey <i>Immersion cooling quantum materials and quantum devices to sub-mK</i>
(11h50-12h05) 13.PS9.1.3. D. Yamamoto <i>Entropy engineering in SU(N) cold atoms for simulating strongly correlated electron systems</i>	(11h50-12h05) 13.PS9.2.3. J. E. Hirsch <i>Unanswered questions raised by the Meissner effect and proposed answers</i>	(11h50-12h05) 13.PS9.3.3. L. Greene <i>Planar Tunnel Spectroscopy of CeCoIn<sub>5</sub>: Investigation of local-moment pairing.</i>	(11h50-12h05) 13.PS9.4.3. Zh. Zhan <i>Robust flat bands in twisted trilayer graphene</i>	(11h50-12h05) 13.PS9.5.3. K. Frei <i>Half-quantized Hall Plateaus in the Confined Geometry of Graphene</i>	(11h50-12h05) 13.PS9.6.3. S. Kobayashi <i>Phase control of fermion parity in a quantum dot Josephson junction</i>	(11h50-12h05) 13.PS9.7.3 A. Wang <i>Observation of topological Anderson Chern insulator phase in MnBi<sub>4</sub>Te<sub>7</sub> monolayer</i>	(11h50-12h05) 13.PS9.8.3. Yue Ban <i>Digital Quantum Simulation of Fermionic Lattice Models with Counterdiabatic Ansatz</i>	(11h50-12h05) 13.PS9.9.3 O. Sharifi <i>Cooling and thermometry of a semiconductor 2D gas down to 1 mK</i>

**12h05-12h10 Move to Auditorium level 4**

	Auditorium Level 4
<b>Award of IUPAP early career scientist prize in low temperature physics. Presenter Richard Haley</b>	
<b>12h10</b>	(12h10-12h40) Anasua Chatterjee, <i>Increasing the complexity of semiconductor quantum devices</i>
<b>12h40</b>	(12h40-13h10) Bayan Karimi, <i>Bolometric measurements on superconducting quantum thermodynamic setups</i>
<b>13h10</b>	(13h10-13h40) Shuqiu Wang, <i>Quasiparticle Scattering Interference Imaging of Topological Superconductivity in UTe<sub>2</sub></i>
<b>13h40</b>	<b>Closing</b>