



Parallel session 4A: 2D materials - transport II		Parallel session 4B: Qubits II	
09:00	Emanuel Tutuc Invited <i>University of Texas at Austin, USA</i> Interlayer coherence in twist-controlled double layers of 2D materials	Kenta Takeda Invited <i>Center for Emergent Matter Science (CEMS), RIKEN, Wako, Japan</i> High-fidelity quantum operations and quantum error correction in silicon	Abstract
09:30	Adbhut Gupta Contributed <i>Princeton University, Princeton, USA</i> Next generation two-dimensional carrier systems in GaAs quantum wells	Boris Brun Contributed <i>CEA, Grenoble INP, IRIG-PHELIQS, Grenoble, France</i> A single hole spin with enhanced coherence in natural silicon	Abstract
09:45	Lyudmila Turyanska Contributed <i>University of Nottingham, Nottingham, United Kingdom</i> Charge Transfer In Perovskite/Graphene Field Effect Transistors	Oriol Pietx-Casas Contributed <i>Delft University of Technology, Delft, Netherlands</i> Hotter is easier: overcoming heating effects and temperature scaling of 28Si/SiGe spin qubits	Abstract
10:00	Vincent Renard Contributed <i>Univ. Grenoble Alpes, CEA, IRIG, PHELIQS, Grenoble, France</i> Experimental evidence of a Berry-Kekulé vortex in graphene	Mohamed Seddik Ouacel Contributed <i>Université Grenoble Alpes, CNRS, Grenoble INP, Institut Néel, Grenoble, France</i> Flying electron qubit using ultrashort charge pulses	Abstract
10:15	Pawel Potasz Contributed <i>Nicolaus Copernicus University, Torun, Poland</i> Magnetic properties of partially filled energy bands of moire superlattice	Leo Pugliese Contributed <i>SPEC, CEA, CNRS, Université Paris-Saclay, CEA Saclay, France</i> Emission and coherent control of Levitons in graphene	Abstract
10:30	Coffee break		
Parallel session 5A: Fractional Quantum Hall effect I		Parallel session 5B: Topology	
11:00	Masayuki Hashisaka Invited <i>NTT Basic Research Laboratories, NTT Corporation, Atsugi, Japan</i> Coherent-Incoherent Crossover of Charge and Neutral Mode Transport at a Fractional-Integer Quantum Hall Junction	Carmine Autieri Invited <i>Institute of Physics, Polish Academy of Sciences, Warsaw, Poland</i> New topological phases in HgTe-based systems	Abstract
11:30	Chengyu Wang Contributed <i>Princeton University, Princeton, USA</i> Even-denominator fractional quantum Hall states in ultra-high-mobility GaAs twodimensional hole systems	Stefan Hartl Contributed <i>Universität Regensburg, Regensburg, Germany</i> Quantum Hall effect and current distribution in a 3D-topological insulator	Abstract
11:45	June-Young Lee Contributed <i>KAIST, Daejeon, Korea</i> Non-Abelian Anyon Collider	Guangtai Lu Contributed <i>University of Tokyo, Tokyo, Japan</i> Lasing oscillation in twisted quadrupole topological photonic crystals	Abstract
12:00	Yigal Meir Contributed <i>Ben Gurion University, Beer Sheva, Israel</i> Measuring Entropy of Exotic Particles	Erwann Bocquillon Contributed <i>ENS, CNRS, Sorbonne Université, Paris, France</i> Velocity of edge plasmons in HgTe-based 2D topological insulators	Abstract
12:15	Jinhong Park Contributed <i>Karlsruhe Institute of Technology, Karlsruhe, Germany</i> Noise on the non-Abelian $\nu=5/2$ quantum Hall edge: Towards the identification of its topological order	Hui Li Contributed <i>Hong Kong University of Science and Technology, China</i> Third-order nonlinear transport in antiferromagnetic topological insulator MnBi ₂ Te ₄ flakes	Abstract
12:30	Lunch break		
Parallel session 6A: Fractional Quantum Hall effect II		Parallel session 6B: 2D materials - optics II	
14:30	François Parmentier Invited <i>Université Paris-Saclay, CEA, CNRS, SPEC, France</i> Heat equilibration of integer and fractional quantum Hall edge modes in graphene	Wojciech Pacuski Invited <i>University of Warsaw, Poland</i> Excitons in transition metal dichalcogenides grown by MBE on hBN	Abstract
15:00	Pierre Glidic Contributed <i>Université Paris-Saclay, CNRS, C2N, Palaiseau, France</i> Exploring the nature of integer and fractional quantum Hall quasiparticles in a 'collider' geometry	Jean-Michel Gérard Contributed <i>CEA, INP, IRIG-PHELIQS, NPSC laboratory, Grenoble, France</i> A nanowire optical cavity for broadband enhancement of spontaneous emission	Abstract
15:15	Toshimasa Fujisawa Contributed <i>Tokyo Institute of Technology, Tokyo, Japan</i> Non-thermal Tomonaga-Luttinger liquid emerged from hot electrons in quantum Hall edge channels	Aleksander Rodek Contributed <i>University of Warsaw, Warsaw, Poland</i> Controlled coherent-coupling and dynamics of exciton complexes in a MoSe ₂ monolayer	Abstract
15:30	Heung-Sun Sim Invited <i>KAIST, Daejeon, South Korea</i> Braiding of anyons at quantum point contacts	Elena Blundo Invited <i>Sapienza University of Rome, Rome, Italy</i> Strain tuning of the optoelectronic properties of two-dimensional crystals	Abstract
16:00	Coffee break		
Parallel session 7A: 2D materials - transport III		Parallel session 7B: Low dimensional systems II	
16:30	Annika Kurzmam Invited <i>RWTH Aachen, Germany</i> Kondo effect in bilayer graphene quantum dots	David Northeast Invited <i>National Research Council Canada, Ottawa, Canada</i> Hybrid integrated quantum photonic circuits using InAsP quantum dots in InP nanowires on a silicon nitride platform	Abstract
17:00	Aurélien Schmitt Contributed <i>Laboratoire de Physique de l'ENS, Paris, France</i> Mesoscopic Klein-Schwinger effect in graphene	Hajer Tlili Contributed <i>CEA, INP, IRIG-PHELIQS, NPSC laboratory, Grenoble, France</i> Exploring the high-frequency mechanical resonances of a quantum dot-microwave hybrid system	Abstract
17:15	Priya Tiwari Contributed <i>Weizmann Institute of Science, Rehovot, Israel</i> Experimental observation of spin-split energy dispersion in high-mobility single-layer graphene/WSe ₂ heterostructures	Kazuyuki Kuroyama Contributed <i>The University of Tokyo, Tokyo, Japan</i> Electrical Detection of Ultrastrong Coupling between Two-Dimensional Electrons and a Single Terahertz Optical Resonator by Using a Quantum Point Contact	Abstract
17:30	Mark Greenaway Invited <i>Loughborough University, UK</i> Doppler-shifted magnetophonon resonances, Mach supersonics and a critical "Landau" velocity in graphene	Takase Shimizu Contributed <i>NTT Basic Research Laboratories, NTT corporation, Japan</i> Bias-induced decoherence in a Mach-Zehnder interferometer consisting of spin resolved copropagating edge channels	Abstract
17:45		Chuyao Tong Contributed <i>ETH Zurich, Switzerland</i> Long-lived valley states in bilayer graphene quantum dots	Abstract
18:00-20:00	Poster session 2 (Atrium)		