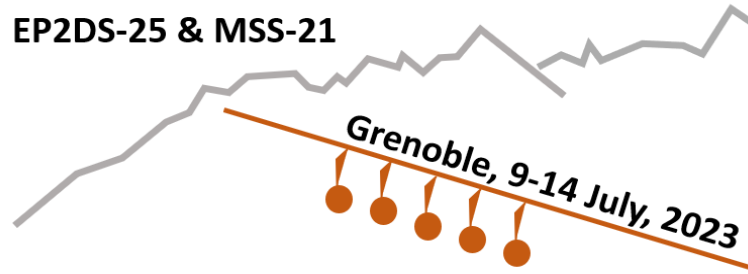


EP2DS-25 & MSS-21



Monday
10/07/2023

Plenary session 1 - Auditorium			
08:50	Chair: Allan H. MacDonald	Clément Faugeras <i>Université Grenoble Alpes, LNCMI, CNRS, Grenoble, France</i>	Conference opening
09:00		Jacqueline Bloch <i>CNRS - Université Paris Saclay, France</i>	Emulating condensed matter physics with photons in lattices
09:45		Atac Imamoglu <i>ETH Zurich, Switzerland</i>	Optical investigation of strong electronic correlations: kinetic magnetism in semiconductor moire materials
10:30	Coffee break		
Parallel session 1A: 2D materials - transport I		Parallel session 1B: Qubits I	
11:00	Location: Auditorium Chair: Rolf Haug	Dmitri K. Efetov Invited <i>Ludwig Maximilian University of Munich, Germany</i> Plethora of Many-Body Ground States in Magic Angle Twisted Bilayer Graphene	Andrea Hofmann Invited <i>University of Basel, Switzerland</i> Hybrid super-/semiconducting devices in planar Ge
11:30		Alexandra Mestre Tora Contributed <i>ETH Zürich, Switzerland</i> Gate-defined ring in magic-angle twisted bilayer graphene	Michihisa Yamamoto Contributed <i>RIKEN, Wako, Saitama, Japan</i> Quantum circuits for electron flying qubits
11:45		Adam Shaffique Contributed <i>National University of Singapore, Singapore</i> Apparent strange metal behavior in small angle twisted bilayer graphene	Jonathan Fletcher Contributed <i>National Physical Laboratory, Teddington, UK</i> Time-resolved Coulomb collision of single electrons
12:00		Uli Zeitler Contributed <i>Radboud University, Nijmegen, The Netherlands</i> Phonon-mediated room-temperature quantum Hall transport in graphene	Christopher Bauerle Invited <i>Université Grenoble Alpes, CNRS, Institut Néel, Grenoble, France</i> Electron collision experiments and flying qubits with single electrons
12:15		Tani Tenta Contributed <i>Osaka University, Osaka, Japan</i> Fano-resonant perpendicular electronic transport and interface-localized state in twisted graphite	
12:30	Lunch break		
Parallel session 2A: 2D materials - optics I		Parallel session 2B: Low dimensional systems I	
14:30	Location: Auditorium Chair: Atac Imamoglu	Ursula Wurstbauer Invited <i>Institute of Physics, Münster University, Münster, Germany</i> Collective excitations in two-dimensional quantum materials	Jérôme Faist Invited <i>ETH Zurich, Switzerland</i> Breakdown of the topological protection in the integer Quantum Hall effect through vacuum field in metamaterial cavities
15:00		Piotr Kapuscinski Contributed <i>Université Grenoble Alpes, LNCMI, CNRS, Grenoble, France</i> Electronic Raman scattering in transition metal dichalcogenide monolayers	Tobias Voelkl Contributed <i>Weizmann Institute of Science, Rehovot, Israel</i> Direct observation of vortices in an electron fluid
15:15		Maciej Molas Contributed <i>University of Warsaw, Warsaw, Poland</i> Hot luminescence or Raman scattering in monolayers of MoSi ₂ N ₄	Baptiste Lefaucher Contributed <i>Univ. Grenoble Alpes, CEA, SiNaPS laboratory, Grenoble, France</i> Purcell-enhanced zero-phonon emission for silicon color centers in SOI cavities
15:30		Alexey Chernikov Invited <i>Dresden University of Technology, Germany</i> Mobile exciton complexes in inorganic and hybrid 2D semiconductors	Ngoc Han Tu Contributed <i>RIKEN, Saitama, Japan</i> Control of the long-range spin screening and Kondo tunnelling in a quantum box
15:45			Francis Granger Contributed <i>Univ. Grenoble-Alpes, CEA, Grenoble-INP, Grenoble France</i> Room-temperature single-photon source in the blue-green range using CdSe quantum-dot
16:00	Coffee break		
Parallel session 3A: Quantum Hall effect I		Parallel session 3B: Spintronics & THz	
16:30	Location: Auditorium Chair: Dieter Weiss	Yuma Okazaki Invited <i>AIST & NMIJ, Tsukuba, Japan</i> Prospects and progress of the quantum anomalous Hall resistance standard	Shinobu Ohya Invited <i>The University of Tokyo, Japan</i> Giant spin-charge conversion using two-dimensional electron gas systems of single-crystalline oxide Rashba heterostructures
17:00		Jean Heremans Contributed <i>Virginia Tech, Blacksburg, USA</i> Electron-electron interactions and collective dynamics in 2D electron systems	Katsumasa Yoshioka Contributed <i>NTT Basic Research Laboratories, NTT Corporation, Atsugi, Japan</i> Ultrafast On-chip Readout of Propagating THz Graphene Plasmon Wavepackets
17:15		Hiroshi Kamata Contributed <i>NTT Basic Research Laboratories, Atsugi, Kanagawa, Japan</i> Time-resolved helical edge transport in the quantum Hall regime of electron-hole bilayer systems	Pavlo Sai Contributed <i>CENTERA Laboratories, IHPP PAS, Warsaw, Poland</i> Electrical Tuning of 2D Plasmon Resonances in AlGaIn/GaN Plasmonic Crystals
17:30		Yang Liu Contributed <i>Peking University, Haidian, Beijing, China</i> Dynamic Response of Wigner Crystals	Lukáš Nádvorník Invited <i>Charles University, Prague, The Czech Republic</i> Terahertz spin currents in magnetically ordered thin films
17:45		Lev V. Ginzburg Contributed <i>Solid State Physics Laboratory, ETH Zürich, Switzerland</i> Long distance electron-electron scattering detected with point contacts	
18:00-20:00	Poster session 1 (Atrium)		