



Day6 - Aug. 23 (Tue)

Hall 1							
9:00	Fritz London Memorial Prize				chairs: W. Halperin, N. Nagaosa		
Prize	23A-PR-01 (9:00-9:45) Topological Interplay of Superconductivity and Disorder <u>Valerii Vinokur</u>						
	23A-PR-02 (9:45-10:30) Quantum Anomalous Hall Effect <u>Qi-Kun Xue</u>						
10:30	10:30 - 11:00 Coffee Break						
	Hall 1	Hall 2	Hall 3	Hall 4	Hall 5		
11:00	SF2 SYMPOSIUM: Sr₂RuO₄ chairs: C. Hicks S. Yonezawa	SF1 Optomechanics, nanomechanics chairs: M. W. Meisel S. Murakawa	SF4 Semiconductor quantum computing chairs: M. Simmons R. Ito	SF5 Low-temperature detectors chairs: A. D'Addabbo T. Nitta	SF3 Exotic magnetism II chairs: S. Paschen S. Miyahara		
Invited&Contributed	23A-SF2-01 (11:00-11:30) On the Nature of Superconductivity in Sr ₂ RuO ₄ <u>Stuart Brown</u>	23A-SF1-01 (11:00-11:30) Measurements of superfluid helium drops levitated in high vacuum <u>Jack Harris</u>	23A-SF4-01 (11:00-11:30) High-fidelity quantum gates and quantum error correction with silicon spin qubits <u>Kenta Takeda</u>	23A-SF5-01 (11:00-11:30) Microwave Kinetic Inductance Detectors for Astrophysics, Biophysics, and Dark Matter Detection <u>Benjamin Mazin</u>	23A-SF3-01 (11:00-11:30) Charge-neutral fermions and magnetic field-driven instability in insulating YbIr ₃ Si ₇ <u>Yuki Sato</u>		
	23A-SF2-02 (11:30-12:00) Searching for Multi-Component Superconductors with Resonant Ultrasound Spectroscopy <u>Brad Ramshaw</u>	23A-SF1-02 (11:30-11:50) Real-Time Interaction of NEMS with Quantum Vortices in Superfluid-4 <u>Viktor Tsepelin</u>	23A-SF4-02 (11:30-11:50) Quantum dot Fermi-Hubbard simulator: Heisenberg spin chain and Coulomb drag <u>Tzu-Kan Hsiao</u>	23A-SF5-02 (11:30-11:50) Ultrasensitive bolometer with sub-microsecond response time using graphene Josephson junction <u>Pertti Hakonen</u>	23A-SF3-02 (11:30-11:50) Restriction on hidden order parameter from local symmetry at Ru site under uni-axial stress in URu ₂ Si ₂ <u>Shinsaku Kambe</u>		
	23A-SF2-03 (12:00-12:30) Deconstructing Sr ₂ RuO ₄ : Insights from a microscopic perspective <u>Aline Ramires</u>	23A-SF1-03 (11:50-12:10) Topologically protected mobile solid ³ He on carbon nanotube <u>Igor Todoshchenko</u>	23A-SF4-03 (11:50-12:10) Derivation of Single and Multiple Qubit Dynamics from Spin-Boson Model <u>Hiroaki Matsueda</u>	23A-SF5-03 (11:50-12:10) Towards ultrasensitive calorimetric detection of single photons in superconducting quantum circuits <u>Bayan Karimi</u>	23A-SF3-03 (11:50-12:10) Detailed magnetic phase diagram for hidden order in CeCoSi without local space inversion symmetry <u>Shun Yanagiya</u>		
		23A-SF1-04 (12:10-12:30) Superfluid ³ He-B Surface States in a Confined Geometry Probed by a Microelectromechanical Oscillator <u>Wenguang Jiang</u>	23A-SF4-04 (12:10-12:30) Universal quantum computation based on nanoscale skyrmion helicity qubits in frustrated magnets <u>Motohiko Ezawa</u>	23A-SF5-04 (12:10-12:30) Metallic magnetic calorimeters: Novel detectors for high-resolution X-ray spectroscopy <u>Daniel Hengstler</u>	23A-SF3-04 (12:10-12:30) NMR study of α -Mn exhibiting anomalous Hall effect under high pressure <u>Hideto Fukazawa</u>		
12:30	12:30 - 14:00 Lunch Break						
14:00	14:00 - 16:00 Poster Session						
16:00	16:00 - 16:30 Coffee Break						

color code: SF1 SF2 SF3 SF4 SF5

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	Hall 1	Hall 2	Hall 3	Hall 4	Hall 5
16:30	SF1 SYMPOSIUM: Topological superfluid ^3He chairs: Y. Sasaki A. Vorontsov	SF2 Fe-based superconductors chairs: H. Suderow H. Ding	SF4 Quantum transport I chairs: C. Bauerle A. Anthore	SF5 Thermometry chairs: H. Ikegami C. Enss	SF3 Correlation and topology chairs: F. Ronning T. Asaba
	23P-SF1A-01 (16:30-17:00) Flow in the nodal-line superfluid in confined ^3He Vladimir Eltsov	23P-SF2A-01 (16:30-17:00) Possible Majorana Zero Mode in the Vortex Cores of Fe(Se, Te) Tetsuo Hanaguri	23P-SF4A-01 (16:30-17:00) Real-time detection of two-electron tunneling processes in a Cooper pair splitter Antti Ranni	23P-SF5-01 (16:30-17:00) Switching thermometry for dynamical investigations of thermal processes at nanoscale Maciej Zgirski	23P-SF3A-01 (16:30-17:00) Topological phases in correlated systems from first principles Roser Valenti
	23P-SF1A-02 (17:00-17:30) Superfluid ^3He in Nematic Aerogel in High Magnetic Field Vladimir Dmitriev	23P-SF2A-02 (17:00-17:20) Quadrupolar charge dynamics in the nonmagnetic FeSe _{1-x} S _x superconductors Weilu Zhang	23P-SF4A-02 (17:00-17:20) Excitonic nature of magnons in a quantum Hall ferromagnet Preden Roulleau	23P-SF5-02 (17:00-17:20) Liquid ^3He based thermometers for calorimetric measurements of small solid samples at ultra-low temperatures and high magnetic fields. Lucia Steinke	23P-SF3A-02 (17:00-17:20) Weyl-orbit quantum oscillation in untwinned thin films of ferromagnetic Weyl semimetal SrRuO ₃ Wei-Li Lee
	23P-SF1A-03 (17:30-18:00) Pair Density Waves in Confined Superfluid ^3He Takeshi Mizushima	23P-SF2A-03 (17:20-17:40) Unique interplay between local moments and vortices in the high- T_c magnetic superconductor EuRbFe ₄ As ₄ Shigeyuki Ishida	23P-SF4A-03 (17:20-17:40) Exciton condensation and valley splitting in Si/SiGe bilayers Dominique Laroche	23P-SF5-03 (17:20-17:40) Comparison of different Johnson noise thermometers from millikelvin down to microkelvin temperatures Alexander Kirste	23P-SF3A-03 (17:20-17:40) Investigation of spin-orbital dynamics on the non-Kramers pyrochlore lattice Nan Tang
		23P-SF2A-04 (17:40-18:00) Order Parameter Fluctuations and Thermodynamics in the 2D t-J Model William Putikka	23P-SF4A-04 (17:40-18:00) Collision integral and generalized Ward identity for nonlinear Kondo effect in the low-energy Fermi-liquid regime Akira Oguri	23P-SF5-04 (17:40-18:00) Development of Magnetic-Field-Insensitive Thermometer and Its Applications Used in Pulsed-Magnetic Field Atsushi Miyake	23P-SF3A-04 (17:40-18:00) Electric current control of spin helicity and memory effect in an itinerant helimagnet Nan Jiang
18:00	18:00 - 18:30 Coffee Break				
18:30	SF3 SYMPOSIUM: Quantum spin liquid chairs: Y. Motome T. K. Ng	SF2 Cuprates and nickelates chairs: Y. Iguchi H. Kontani	SF4 Quantum transport II chairs: C. Strunk A. Oguri	SF2 Topological superconductors chairs: T. Machida S. Kobayashi	SF1 Phase transitions chairs: J. Taniguchi R. Nomura
	23P-SF3B-01 (18:30-19:00) Disorder in the Kitaev spin liquid Natalia Perkins	23P-SF2B-01 (18:30-19:00) New findings in pressurized superconducting cuprate and non-superconducting heavy fermion compound Liling Sun	23P-SF4B-01 (18:30-19:00) Transmission of quantum state of electrons across a metallic island with Coulomb interaction Anne Anthore	23P-SF2C-01 (18:30-19:00) Spin and Coulomb interaction effects on Andreev states in hybrid weak links Cristián Urbina	23P-SF1B-01 (18:30-19:00) 4D XY Quantum Criticality in ^4He Confined in Nanoporous Media Keiya Shirahama
	23P-SF3B-02 (19:00-19:30) Magnetothermal Transport in the Field-induced Quantum Spin Liquid State of a Honeycomb $J_{\text{eff}}=1/2$ Magnet Hidenori Takagi	23P-SF2B-02 (19:00-19:30) Compartmentalizing the cuprate strange metal Nigel Hussey	23P-SF4B-02 (19:00-19:20) Phase interference for probing topological fractional charge in a TI-based Josephson junction array Daan Wielens	23P-SF2C-02 (19:00-19:20) Superconducting single-photon detectors and qubits based on two-dimensional materials Kin Chung Fong	23P-SF1B-02 (19:00-19:20) Cosmology and the AB transition in superfluid ^3He Mark Hindmarsh
	23P-SF3B-03 (19:30-20:00) Thermal Hall conductivity κ_{xy} and κ_{xx} in the Kitaev magnet $\alpha\text{-RuCl}_3$ Phuan Ong	23P-SF2B-03 (19:30-19:50) Superconductivity in La-based infinite-layer nickelates Motoki Osada	23P-SF4B-03 (19:20-19:40) A hallmark of disordered reconstructed-edge transport at a fractional-integer quantum Hall junction Masayuki Hashisaka	23P-SF2C-03 (19:20-19:40) 1D Majorana Goldstinos and partial supersymmetry breaking in quantum wires Pasquale Marra	23P-SF1B-03 (19:20-19:40) NMR evidence for density wave order in the two dimensional ^4He supersolid doped by ^3He Jan Nyeki
		23P-SF2B-04 (19:50-20:10) Calculation of the Phase Diagram of Nickelate Superconductors Motoharu Kitatani	23P-SF4B-04 (19:40-20:00) Universal Hydrodynamic Flow in a Two-Dimensional Electron Fluid Alex Hamilton	23P-SF2C-04 (19:40-20:00) Self-consistent study of non-Abelian topological superconductivity in quasicrystals Kaori Tanaka	23P-SF1B-04 (19:40-20:00) Disorder Induced Anomalous Thermal Hall Effect in Chiral Phases of Superfluid ^3He Priya Sharma
20:10	Poster 4 remote (21:00-23:00)				

color code: SF1 SF2 SF3 SF4 SF5