

Day3 - Aug. 20 (Sat)

		Hall 1		Hall 2		
9:00	Half Plenary	Half-Plenary Sponsored by RIKEN-CEMS chairs: H. Ronnow, Y. Matsuda 20A-HPA-01 (9:00-9:40) Theoretical studies of frustrated Kitaev magnetic systems <u>Hae-Young Kee</u>		Half-Plenary chairs: D. Konstantinov, S. Takada 20A-HPB-01 (9:00-9:40) Building qubits with electrons levitated above helium and neon <u>David Schuster</u>		
		20A-HPA-02 (9:40-10:20) Emergent electromagnetic phenomena in topological magnets <u>Yoshinori Tokura</u>		20A-HPB-02 (9:40-10:20) Spin, heat and Hall transport in strongly interacting quantum gases <u>Martin W. Zwierlein</u>		
10:20		10:20 - 10:50 Coffee Break				
		Hall 1	Hall 2	Hall 3	Hall 4	Hall 5
10:50	Invited&Contributed	SF2 Non-centrosymmetric superconductors chairs: Rina Tazai, S. Kittaka 20A-SF2A-01 (10:50-11:20) The Two-Phase Superconductor CeRh ₂ As ₂ <u>Elena Hassinger</u>	SF3 Frustrated magnets chairs: Y. Kasahara H. Y. Kee 20A-SF3-01 (10:50-11:20) SrCu ₂ (BO ₃) ₂ – a Deep Purple crystal <u>Henrik Ronnow</u>	SF4 Non-equilibrium chairs: A. K. Huettel H. Akera 20A-SF4-01 (10:50-11:20) Three-body correlation in nonequilibrium quantum liquid <u>Kensuke Kobayashi</u>	SF2 Interface-2D superconductivity chairs: A. Ikeda, A. Daido 20A-SF2B-01 (10:50-11:20) Tunnel Spectroscopy of Hybrid Superconducting Systems <u>Elke Scheer</u>	SF1 ⁴He: other topics I chairs: R. Haley Y. Shibayama 20A-SF1-01 (10:50-11:20) Watching the decay of quantized vortex rings in superfluid helium-4 <u>Wei Guo</u>
		20A-SF2A-02 (11:20-11:50) Parity transition and topological superconductivity in a locally noncentrosymmetric superconductor CeRh ₂ As ₂ <u>Youichi Yanase</u>	20A-SF3-02 (11:20-11:50) Kagome Quantum Spin Liquids: the case of Herbertsmithite <u>Philippe Mendels</u>	20A-SF4-02 (11:20-11:50) A single-electron toolbox for quantum applications assisted by sound waves <u>Shintaro Takada</u>	20A-SF2B-02 (11:20-11:50) Spin-triplet superconductivity in nonmagnetic CoSi ₂ /TiSi ₂ heterostructures <u>Juhn-Jong Lin</u>	20A-SF1-02 (11:20-11:50) Rotating quantum wave turbulence and onset of the Kelvin wave cascade <u>Jere Makinen</u>
		20A-SF2A-03 (11:50-12:10) Parity Transition of Spin-Singlet Superconductivity in Locally Noncentrosymmetric Superconductor CeRh ₂ As ₂ <u>Shunsaku Kitagawa</u>	20A-SF3-03 (11:50-12:10) Spin liquid and nematic states in the spin-1 honeycomb Kitaev model with bilinear-biquadratic interactions <u>Rico Pohle</u>	20A-SF4-03 (11:50-12:10) Antibunching of an electron pair surfing on sound <u>Junliang Wang</u>	20A-SF2B-03 (11:50-12:10) Signatures of unconventional 2D superconductivity in a bulk van der Waals superlattice <u>Aravind Devarakonda</u>	20A-SF1-03 (11:50-12:10) Friction-enhanced lifetime of bundled quantum vortices <u>Luca Galantucci</u>
		20A-SF2A-04 (12:10-12:30) YbRh ₂ Si ₂ / ¹⁷⁴ YbRh ₂ Si ₂ : Unconventional Superconductivity and Strange Metal Behavior <u>Ha Duy Nguyen</u>	20A-SF3-04 (12:10-12:30) NMR evidence for Majorana gap in the Kitaev magnet <u>Yasuhiro Shimizu</u>	20A-SF4-04 (12:10-12:30) Beating Carnot efficiency with periodically driven chiral conductors <u>Sungguen Ryu</u>	20A-SF2B-04 (12:10-12:30) ¹⁷ O-NMR measurements on Sr ₂ RuO ₄ near upper critical field <u>Katsuki Kinjo</u>	20A-SF1-04 (12:10-12:30) Superfluid Suction Vortex <u>Ken Obara</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				
16:30	Invited&Contributed	SF3 Exotic magnetism I chairs: P. Mendels G. Q. Zheng 20P-SF3-01 (16:30-17:00) Possible spin-orbit entangled J-physics in Co compounds <u>Je-Geun Park</u>	SF2 Higgs, superconducting diode chairs: E. Scheer K. Shiozaki 20P-SF2-01 (16:30-17:00) Higgs spectroscopy of unconventional superconductors in non-equilibrium <u>Dirk Manske</u>	SF4 Superconducting quantum computing chairs: H. Shimada M. Sillanpää 20P-SF4-01 (16:30-17:00) Realizing Quantum Error Correction with Superconducting Circuits <u>Andreas Wallraff</u>	SF5 Electronic devices at low temperatures chairs: M. Zgirski E. Kawakami 20P-SF5-01 (16:30-17:00) Resolving and mitigating correlated errors in superconducting qubits <u>Rami Barends</u>	SF1 Superfluid ³He chairs: T. Kita L. V. Levitin 20P-SF1-01 (16:30-17:00) Superfluid Helium-3 Electromechanics <u>John P. Davis</u>
		20P-SF3-02 (17:00-17:30) Dynamic transition of current-driven single-skyrmion motion in a chiral-lattice magnet <u>Licong Peng</u>	20P-SF2-02 (17:00-17:30) Superconducting Diode Effect in Rashba Superlattice <u>Teruo Ono</u>	20P-SF4-02 (17:00-17:30) Quantum Computational Advantage Using a Superconducting Quantum Processor Supported by JST-CREST <u>Xiaobo Zhu</u>	20P-SF5-02 (17:00-17:30) 500 microkelvin nanoelectronics <u>Attila Geresdi</u>	20P-SF1-02 (17:00-17:30) Chiral superfluidity of helium-3 in quasi-two-dimensional limit <u>Petri J. Heikkinen</u>
		20P-SF3-03 (17:30-17:50) Tunable spin-valley coupling and nonreciprocal transport in polar Dirac metal BaMnX ₂ (X=Sb, Bi) <u>Hideaki Sakai</u>	20P-SF2-03 (17:30-17:50) Theory of intrinsic superconducting diode effect <u>Akito Daido</u>	20P-SF4-03 (17:30-17:50) Generating families of three-qubit gates from simultaneous two-qubit gates <u>Anton Frisk Kockum</u>	20P-SF5-03 (17:30-17:50) Integration of a cryogenic LC circuit to image-charge detection for surface electrons on helium <u>Ivan Grytsenko</u>	20P-SF1-03 (17:30-17:50) Effect of Flow on the Spatial Arrangement of Chiral Domains in Superfluid ³ He-A <u>Yuto Ikegai</u>
		20P-SF3-04 (17:50-18:10) Multi-modal NMR spectroscopy of phase transitions in quantum materials <u>Vesan F Mitrovic</u>	20P-SF2-04 (17:50-18:10) Supercurrent diode and magnetochiral effects in symmetric Josephson junctions <u>Simon Reinhardt</u>	20P-SF4-04 (17:50-18:10) Tunability and High Coherence in Laser Annealed Superconducting Quantum Processors <u>Hyunseong Kim</u>	20P-SF5-04 (17:50-18:10) An electron turnstile for frequency-to-power conversion <u>Marco Marin Suarez</u>	20P-SF1-04 (17:50-18:10) Supercooling of the A Phase of ³ He <u>Jeevak Parpia</u>
18:10			Poster 2 remote (21:00-23:00)			