



## Day2 - Aug. 19 (Fri)

Hall 1					
9:00	<b>Special Symposium: Physics of Superfluid Helium 3 - Past, Present, and Future</b> Sponsored by IMR Tohoku U. chairs: W. Halperin, K. Shirahama				
Symposium	<b>19A-S-01 (9:00-9:20)</b> The Discovery of Superfluid Helium-3 (video message) <u>David M. Lee</u>				
	<b>19A-S-02 (9:20-9:50)</b> What makes superfluid 3-He special? <u>Anthony J. Leggett</u>				
	<b>19A-S-03 (9:50-10:20)</b> Superfluid <sup>3</sup> He – <i>Nature's Gift to Physics</i> <u>James A. Sauls</u>				
	<b>19A-S-04 (10:20-10:50)</b> Superfluid <sup>3</sup> He; a perspective on future prospects from materials science to fundamental physics. <u>John Saunders</u>				
10:50	10:50 - 11:20 Coffee Break				
11:20	<b>Plenary</b> Sponsored by JST-CREST chairs: Q. Si, H. Fukuyama				
Plenary	<b>19A-P-01 (11:20-12:05)</b> The Magic of Moiré Quantum Matter <u>Pablo Jarillo-Herrero</u>				
	<b>19A-P-02 (12:05-12:50)</b> The Magic of Atomically Thin Crystals <u>Eva Andrei</u>				
12:50	12:50 - 14:00 Lunch Break				
14:00	14:00 - 16:00 Poster Session				
16:00	16:00 - 16:30 Coffee Break				
	Hall 1	Hall 2	Hall 3	Hall 4	Hall 5
16:30	<b>SF3 Quantum critical phenomena</b> chairs: N. Hussey K. Miyake	<b>SF1 Cold atom, BEC</b> chairs: I. Danshita Y. Tsutsumi	<b>SF4 Graphene and emerging materials</b> chairs: T. Wakamura T. Osada	<b>SF2 Superconductivity theory</b> chairs: Y. Asano D. Manske	<b>SF2 AV<sub>3</sub>Sb<sub>5</sub></b> chairs: E. Hassinger Y. Iwasa
Invited&Contributed	<b>19P-SF3-01 (16:30-17:00)</b> Quantum Critical Metals: From Loss of Quasiparticles to High-Tc Superconductivity <u>Qimiao Si</u>	<b>19P-SF1-01 (16:30-17:00)</b> Superfluids under External Driving <u>Yuki Kawaguchi</u>	<b>19P-SF4-01 (16:30-17:00)</b> Tunable quantum Hall broken-symmetry orders in graphene <u>Benjamin Sacepe</u>	<b>19P-SF2A-01 (16:30-17:00)</b> A solvable 3D Kondo lattice model exhibiting odd-frequency pairing and fractionalization. <u>Alexei Tsvetlik</u>	<b>19P-SF2B-01 (16:30-17:00)</b> Unconventional charge density wave order and superconductivity in the new class of topological kagome metals AV <sub>3</sub> Sb <sub>5</sub> (A=K, Rb, Cs) <u>Stephen Wilson</u>
	<b>19P-SF3-02 (17:00-17:30)</b> Ferromagnetic quantum criticality <u>Huiqiu Yuan</u>	<b>19P-SF1-02 (17:00-17:30)</b> Quantum magnonics at room temperature <u>Yury Bunkov</u>	<b>19P-SF4-02 (17:00-17:30)</b> Quantum devices in graphene <u>Klaus Ensslin</u>	<b>19P-SF2A-02 (17:00-17:30)</b> Beyond BCS: An Exact Model for Superconductivity and Mottness <u>Philip Phillips</u>	<b>19P-SF2B-02 (17:00-17:30)</b> Topology and correlation driven exotic electronic phases in a kagome superconductor CsV <sub>3</sub> Sb <sub>5</sub> <u>Xianhui Chen</u>
	<b>19P-SF3-03 (17:30-17:50)</b> Electro-nuclear transition in YbRh <sub>2</sub> Si <sub>2</sub> : evidence for a spin density wave <u>Jan Knapp</u>	<b>19P-SF1-03 (17:30-17:50)</b> Dynamical optical lattices and driven transport of exciton-polariton condensates by microwave modulation <u>Michael D. Fraser</u>	<b>19P-SF4-03 (17:30-17:50)</b> Directional Ballistics in Ultra-Pure Delafossite Metals <u>Michal Moravec</u>	<b>19P-SF2A-03 (17:30-17:50)</b> Bogoliubov Fermi surfaces from pairing of j = 3/2 fermions on the pyrochlore lattice <u>Shingo Kobayashi</u>	<b>19P-SF2B-03 (17:30-17:50)</b> Field-angle-resolved calorimetry of the Kagome superconductor CsV <sub>3</sub> Sb <sub>5</sub> <u>Shingo Yonezawa</u>
	<b>19P-SF3-04 (17:50-18:10)</b> A mechanism for the strange metal phase in rare-earth intermetallic compounds <u>Chung-Hou Chung</u>	<b>19P-SF1-04 (17:50-18:10)</b> Universal properties of dissipative Tomonaga-Luttinger liquids: A case study of a non-Hermitian XXZ spin chain <u>Kazuki Yamamoto</u>	<b>19P-SF4-04 (17:50-18:10)</b> Theory and observation of topological Hall torque emerging from band topology <u>Yasufumi Araki</u>	<b>19P-SF2A-04 (17:50-18:10)</b> Theory of Proximity effect in unconventional superconductor junctions -extension to parity mixing superconductors- <u>Yukio Tanaka</u>	<b>19P-SF2B-04 (17:50-18:10)</b> Origin of superconductivity and CDW with/without time-reversal-symmetry breaking in kagome metals AV <sub>3</sub> Sb <sub>5</sub> (A=K, Rb, Cs) <u>Rina Tazai</u>
18:10	Poster 1 remote (21:00-23:00)				