Monday, December 21st.

Opening Remark

8:50 SHIBAUCHI, Takasada

Session 1: Iro	n Chair : EISAKI, Hiroshi
9:00- 9:20	SHIBAUCHI, Takasada (University of Tokyo)
	"Nematic quantum criticality and superconductivity"
9:20- 9:40	OKAZAKI, Kozo (University of Tokyo)
	"BCS-BEC crossover controlled by electronic nematicity in FeSe1-xSx"
9:40-10:00	IKEDA, Hiroaki (Ritsumeikan University)
	"Electronic structure in FeSe"
10:00-10:20	HANAGURI, Tetsuo (RIKEN)
	"Spectroscopic-imaging STM studies of superconductivity and nematicity in Fe(Se,Te)"
10:20-10:35	SUN, Yue (Aoyama Gakuin University)
	"Depairing Jc and its anisotropy of Fe(Te,Se) single crystals"
Session 2: Ner	natic Superconductivity Chair : IKEDA, Hiroaki
10:50-11:05	HOSOI, Suguru (Osaka University)
	"Elastoresistance in the nematic superconductor"
11:05-11:20	YONEZAWA, Shingo (Kyoto University)
	"Coupling between nematic superconductivity and lattice distortion in SrxBi2Se3"
11:20-11:40	EISAKI, Hiroshi (AIST)
	"Unique interplay between superconductivity and magnetism in EuRbFe4As4"
11:40-11:55	MIZUSHIMA, Takeshi (Osaka University)
	"Pair density waves in superfluid 3He under nanoscale confinement"
"Remo" Trial	time
13:30-15:30	*Trial time for using "Remo"

Tuesday, December 22nd.

Session 3: Spi	in Liquid Chair : SATO, Masahiro
9:00-9:20	OHGUSHI, Kenya (Tohoku University)
	"Bandwidth and filling control of Kitaev spin liquid in RuCl3"
9:20-9:40	SATO, Taku J (Tohoku University)
	"Crystal and Magnetic Structures of RuX3 (X = Br, I), and Search for 2D Square-Lattice Compound Hosting Spin Nematic Phases"
9:40-10:00	SHIMIZU, Yasuhiro (Nagoya University)
	"Nucleus probing quantum spin liquid and quantum Hall states"
10:00-10:15	AKAGI, Yutaka (University of Tokyo)
	"Topological excitations and their dynamics in quantum spin nematics"
10:15-10:35	SHANNON, Nic (OIST)
	"Numerical Simulation of Quantum Spin Nematics"
Session 4: Net	w Technique Chair : SATO, Taku J
10:50-11:10	SATO, Masahiro (Ibaraki University)

"Theoretical Proposals for Detecting Dynamical Features of Spin Nematic and Spin Liquid States with Laser"

- 11:10-11:30
 KOBAYASHI, Kensuke (University of Tokyo / Osaka University)

 "Non-linear Electron Transport Mediated by Electron-Magnon Interactions in Magnetic Tunnel Junction"
- 11:30-11:50 KIMURA, Tsuyoshi (University of Tokyo) "Observation of ferroaxial domains using electrogyration"

Session 5: Poster Session

Chair : KOBAYASHI, Kensuke

- 13:30- 1 min. Preview, using "Zoom"
- 14:45- "Remo" open *Please end "Zoom" before starting "Remo"
- 15:00-17:00 Poster Presentation, using "Remo"

 $15:00-16:00 = \text{core time for } \underline{odd} \text{ poster numbers, } 16:00-17:00 = \text{core time for } \underline{even} \text{ poster numbers}$

Wednesday, December 23rd.

Session 6: No	vel Superconductor Chair : KONTANI, Hiroshi		
9:00- 9:20	OKAMOTO, Yoshihiko (Nagoya University)		
	"High-Mobility Carriers and Superconductivity Induced by Chemical Doping in the Candidate Nodal-Line Semimetal CaAgP"		
9:20- 9:35	HIROI, Zenji (University of Tokyo)		
"Surface states and superconductivity of the topological nodal-line semimetal NaAlSi"			
9:35- 9:55	ARITA, Ryotaro (University of Tokyo / RIKEN)		
	"High Tc superconductivity in hydrogen compounds under high pressure"		
9:55-10:10	ADACHI, Tadashi (Sophia University)		
"Possible Chiral d-Wave Superconductivity in BaPtAs1-xSbx with the Honeycomb Network"			
10:10-10:30	KUDO, Kazutaka (Osaka University)		
"Development of Superconductors with Ordered Laves Phase Structures"			
Session 7: Lic	quid Crystal Chair : ARITA, Ryotaro		
10:50-11:10	KONTANI, Hiroshi (Nagoya University)		

"Odd-parity density-wave orders with spontaneous currents in strongly correlated electron systems"

- 11:10-11:25 UCHIDA, Yoshiaki (Osaka University) "Propagation of Intermolecular Interactions in Liquid Crystals"
- 11:25-11:40 KAWASAKI, Takeshi (Nagoya University) "Melting Phenomena in Two-Dimensional Anisotropic Particles"

Thursday, December 24th.

Session 8: Quantum Liquid Crystal and Photons Chair : HIRORI, Hideki

9:00-9:15 ITOH, Hirotake (Tohoku University,)

"Anomalous temperature hysteresis and photoinduced dynamics of electronic-ferroelectric domain structures"

- 9:15-9:35 TODA, Yasunori (Hokkaido University) "Development of polarization-resolved coherent quench spectroscopy"
- 9:35-9:55 TOHYAMA, Takami (Tokyo University of Science) "Anisotropic Spin Dynamics in Photoexcited Two-Dimensional Mott Insulator"
- 9:55-10:10 SASAKI, Takahiko (Tohoku University)

"Nanoscale polarized clusters in a molecular dimer-Mott insulator as precursors of electronic ferroelectricity probed by conductance noise spectroscopy"

- Session 9: New Technique Chair : TOHYAMA, Takami
- 10:30-10:50 WADATI, Hiroki (University of Hyogo) "Ultrafast photoinduced valence dynamics in EuNi2(Si0.21Ge0.79)2"
- 10:50-11:10 HIRORI, Hideki (Kyoto University) "Development of a time-resolved STM using a terahertz electric field pulse"
- 11:10-11:25 NOJIMA, Tsutomu (Tohoku University) "Dielectric anomalies in transport properties of ion-gated SrTiO3"
- 11:25-11:40 SHIOMI, Yuki (University of Tokyo) "Observation of magneto-piezoelectric effect in magnetic metals"
- 11:40-11:55 MATSUNO, Jobu (Osaka University) "Substrate strain effect on transport properties of SrIrO3 thin films"

Friday, December 25th.

Session 10: Sp	in Liquid Crystal	Chair : MOTOME, Yukitoshi		
9:00- 9:20	ISHIZAKA, Kyoko	(University of Tokyo)		
"Nanoscale Imaging of Magnetic Skyrmions by nanosecond TEM"				
9:20- 9:35	KANAZAWA, Naoya	(University of Tokyo)		
	"Giant anomalous	Hall effect from spin chirality scattering in a chiral magnet"		
9:35- 9:55	TOGAWA, Yoshihiko	(Osaka Prefecture University)		
"Collective Dynamics of Chiral Spin Soliton Lattice"				
9:55-10:15	ARIMA, Taka-hisa	(University of Tokyo)		
	"Electric and Mag	netic Responses of Antiferromagnetic Helix"		

Session 11: Exotic Spin Order

Chair : ISHIZAKA, Kyoko

- 10:35-10:55 MOTOME, Yukitoshi (University of Tokyo) "Spin Moire Superstructure"
- 10:55-11:15 SHIMAKAWA, Yuichi (Kyoto University) "Multi-k orthogonal spin ordering in CaFe3Ti4O12"
- 11:15-11:30 YANASE, Youichi (Kyoto University) "Gauge invariant formulation of magnetic/electric quadrupole momoent and its application"
- 11:30-11:50 KASAHARA, Shigeru (Kyoto University) "Bond directional anapole order in Sr2Ir1-xRhxO4"

Winner announcement, QLC Young Researcher Award:	WADATI, Hiroki
Comments:	Evaluation Committee Members
Closing Remark:	SHIBAUCHI, Takasada