

Tuesday, 11 January

Registration

8:30-10:00

Opening

10:00-10:10 **Hikaru Kawamura (Osaka University)**

Session A1

Chair: S. Maegawa

10:10-10:45 **Philippe Mendels (University of Paris-Sud) [A1-1]**

Herbertsmithite: A quantum Heisenberg "spin liquid" on the Kagome network (invited)

10:45-11:20 **Zenji Hiroi (University of Tokyo) [A1-2]**

Novel magnetic orders in volborthite (invited)

11:20-11:40 **Yoshihiko Okamoto (University of Tokyo) [A1-3]**

Magnetization plateaus in spin-1/2 Kagome antiferromagnets: Volborthite and Vesignieite

11:40-12:00 **Toru Sakai (Japan Atomic Energy Agency) [A1-4]**

Quantum critical phenomena in magnetization process of the Kagome and triangular lattice antiferromagnets

12:00-14:00 Lunch

14:00-15:30 Poster Session

Session A2

Chair: H. Kawamura

15:40-16:15 **Pierre Bonville (CEA) [A2-1]**

Phase diagram for $Tb_2Ti_2O_7$ and $Tb_2Sn_2O_7$ (invited)

16:15-16:50 **Subir Sachdev (Harvard University) [A2-2]**

Majorana liquids (invited)

16:50-17:10 **Satoru Maegawa (Kyoto University) [A2-3]**

NMR study of quantum spin liquid and its phase transition in the organic spin-1/2 triangular lattice antiferromagnet $EtMe_3Sb[Pd(dmit)_2]_2$

17:10-17:30 **Minoru Yamashita (Kyoto University) [A2-4]**

Thermal-transport studies of quantum spin liquids

Wednesday, 12 January

Session B1

Chair: S. Nakatsuji

- 9:00-9:35 **Daniel I. Khomskii (University of Köln) [B1-1]**
Orbitals, spin gaps and ‘‘partial Mott transition’’ in low-dimensional and frustrated systems (invited)
- 9:35-10:10 **Hirokazu Tsunetsugu (University of Tokyo) [B1-2]**
Transport properties of electron systems on frustrated lattices (invited)
- 10:10-10:40 Coffee Break

Session B2

Chair: S. Onoda

- 10:40-11:15 **Sang-Wook Cheong (Rutgers University) [B2-1]**
Multiferroic vortices and graph theory (invited)
- 11:15-11:50 **Taka-hisa Arima (Tohoku University) [B2-2]**
Interplay between magnetism and electricity in frustrated magnets (invited)
- 11:50-12:10 **Yoshinori Onose (University of Tokyo) [B2-3]**
Ferroelectricity induced by spin-dependent metal ligand hybridization in $BaCoGe_2O_7$
- 12:10-14:00 Lunch
- 14:00-15:30 Poster Session

Session B3

Chair: H. Kageyama

- 15:40-16:15 **Michel Gingras (University of Waterloo) [B3-1]**
Collective Phenomena in the $LiHo_xY_{1-x}F_4$ Quantum Ising Magnetic Material: Recent Progress and Open Questions (invited)
- 16:15-16:50 **Seung-Hun Lee (University of Virginia) [B3-2]**
Spin entanglements in two-dimensional magnetic systems (invited)
- 16:50-17:10 **Takafumi Suzuki (University of Tokyo) [B3-3]**
Magnetic properties and exotic phase transition to a half plateau phase in a $S=1/2$ XXZ model on Shastry-Sutherland lattices
- 17:10-17:30 **Masayuki Hagiwara (Osaka University) [B3-4]**
Possibility of the field-induced spin-nematic phase in $LiCuVO_4$

Thursday, 13 January

Session C1

Chair: H. Aruga Katori

- 9:00-9:20 **Chisa Hotta (Kyoto Sangyo University) [C1-1]**
Quantum electric dipoles in spin liquid dimer-Mott insulator
- 9:20-9:40 **Hajime Sagayama (Tohoku University) [C1-2]**
Stepwise N-I phase transitions due to charge frustration in a covalently-bonded donor/acceptor chain compound
- 9:40-10:00 **Sumio Ishihara (Tohoku University) [C1-3]**
Orbital degree of freedom and frustration
- 10:00-10:30 Coffee Break

Session C2

Chair: H. Tsunetsugu

- 10:30-11:05 **Claudine Lacroix (CNRS-UJF) [C2-1]**
Frustration in the Kondo lattice: local versus extended singlet phase (invited)
- 11:05-11:40 **Satoru Nakatsuji (University of Tokyo) [C2-2]**
Spin liquids and quantum criticality in 4f electron based Kondo lattice systems (invited)
- 11:40-12:00 **Yukitoshi Motome (University of Tokyo) [C2-3]**
Emergent order in frustrated Kondo lattice systems
- 12:00-14:00 Photo Session & Lunch

Session C3

Chair: Y. Motome

- 14:00-14:35 **Cristian Daniel Batista (Los Alamos National Laboratory) [C3-1]**
Spontaneous quantum Hall effect in frustrated magnets (invited)
- 14:35-15:10 **Yoshinori Tokura (University of Tokyo) [C3-2]**
Skymion crystals and topological transport phenomena (invited)
- 15:10-15:30 **Shigeki Onoda (RIKEN) [C3-3]**
Intrinsic skyrmion Hall effect in two-dimensional relativistic double-exchange ferromagnets
- 15:30-15:50 **Satoshi Fujimoto (Kyoto University) [C3-4]**
Hall effect, Righi-Leduc effect, and Ettingshausen effect of spin waves in frustrated magnets
- 16:00- Excursion and Banquet

Friday, 14 January

Session D1

Chair: Z. Hiroi

- 9:00-9:35 **Bruce D. Gaulin (McMaster University) [D1-1]**
Phase transitions in planar pyrochlores (invited)
- 9:35-10:10 **Collin Broholm (The Johns Hopkins University) [D1-2]**
Continuous magnetic excitation spectrum in the triangular lattice spin-1 antiferromagnet NiGa_2S_4 (invited)
- 10:10-10:40 Coffee Break

Session D2

Chair: K. Ohwada

- 10:40-11:15 **Zuo-Guang Ye (Simon Fraser University) [D2-1]**
Compositional disorder, polar nanoregions and dipole dynamics in $\text{Pb}(\text{Mg}_{1/3}\text{Nb}_{2/3})\text{O}_3$ -based relaxor ferroelectrics (invited)
- 11:15-11:50 **Guangyong Xu (Brookhaven National Laboratory) [D2-2]**
Probing local polar structures in PZN-xPT and PMN-xPT relaxor ferroelectrics using neutron and x-ray scattering (invited)
- 11:50-12:10 **Shigeo Mori (Osaka Prefecture University) [D2-3]**
Multiple Domain Structures in the morphotropic phase boundary region of $(1-x)\text{Pb}(\text{Mg}_{1/3}\text{Nb}_{2/3})\text{O}_3$ -xPbTiO₃
- 12:10-14:00 Lunch

Session D3

Chair: T. Arima

- 14:00-14:20 **Tsutomu Momoi (RIKEN) [D3-1]**
Variational Monte Carlo study of spin nematic states in square lattice frustrated ferromagnets
- 14:20-14:55 **Masaki Azuma (Tokyo Institute of Technology) [D3-2]**
Frustrated $S=3/2$ honeycomb antiferromagnet $\text{Bi}_3\text{Mn}_4\text{O}_{12}(\text{NO}_3)$ (invited)
- 14:55-15:30 **Hikaru Kawamura (Osaka University) [D3-3]**
Spin liquid and novel order in two-dimensional frustrated Heisenberg antiferromagnets (invited)

Closing Remark

- 15:30-15:40 **Hikaru Kawamura (Osaka University)**