

Session Program

6-11 Jun 2021



**Canadian Association
of Physicists**

**Association canadienne
des physiciens et physiciennes**

**2021 CAP Virtual Congress / Congrès virtuel
de l'ACP 2021**

***TS-8 Magnetic North VII / Nord magnétique
VII***

Underline Conference System

Monday 7 June

10:59

TS-8 Magnetic North VII / Nord magnétique VII

Session | **Location:** Underline Conference System | **Convener:** Bruce Gaulin

10:59-11:00

Magnetic North VII - Session 1 - 11h00-12h30 (Chair: Bruce Gaulin, McMaster University)

11:00-12:00

(I) MBT for TBM (Topological Band Magnetism)

Speaker

Allan MacDonald

12:00-12:30

(I) Giant c-axis Nonlinear Anomalous Hall Effect

Speaker

Adam Tsen

12:30-13:29

Lunch break - 12h30-13h30

13:29-13:30

Magnetic North VII - Session 2 - 13h30-14h30 (Chair: Jacob Burgess, University of Manitoba)

13:30-14:00

(I) Tunneling processes through Yu-Shiba-Rusinov states of magnetic atoms on superconductors

Speaker

Katharina Franke

14:00-14:15

Majorana Bound States Induced by Antiferromagnetic Skyrmion Textures

Speaker

Sebastián Díaz

14:15-14:30

Level attraction in a driven cavity magnonic system

Speaker

Igor Proskurin

14:30-14:44

Break - 15 minutes

14:44-14:45

Magnetic North VII - Session 3 - 14h45-15h45 (Chair: Pat Clancy, McMaster University)

14:45-15:15

(I) Microscopic Theory of Spin Frustration in Quantum Magnets

Speaker

Hae-Young Kee

15:15-15:30

Anisotropic magnetic interactions in hexagonal AB-stacked kagome lattice structures: Applications to Mn₃X (X = Ge, Sn, Ga) compounds**Speaker**

Andrey Zelenskiy

15:30-15:45

(G*) Constraints on the Spin Hamiltonian and Entropy of the Dipole-Octupole Spin Liquid Candidate Ce₂Zr₂O₇ from Low Temperature Heat Capacity**Speaker**

Evan Smith

15:45-15:59

Break - 15 minutes

15:59-16:00

Magnetic North VII - Session 4 - 16h00-1715 (Chair: Hae-Young Kee, University of Toronto)

16:00-16:30

(I) Exploring Kitaev Magnetism with Resonant X-Rays**Speaker**

Patrick Clancy

16:30-16:45

(G*) Exchange Interactions in d² Systems**Speaker**

Derek Churchill

16:45-17:00

Interaction-stabilized topological magnon insulator in ferromagnets**Speaker**

Alexander Mook

17:00-17:15

Magnets have Two Longitudinal Degrees of Freedom**Speaker**

Wayne Saslow

17:55