

## **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  $\text{Mn}_3\text{X}$  ( $\text{X} = \text{Ge}, \text{Sn}, \text{Ga}$ ) compounds****Speaker**

Andrey Zelenskiy

15:30-15:45

**(G\*) Constraints on the Spin Hamiltonian and Entropy of the Dipole-Octupole Spin Liquid Candidate  $\text{Ce}_2\text{Zr}_2\text{O}_7$  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  $d^2$  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