



Canadian Association  
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Contribution ID: 541

Type: **Invited Speaker** / **Conférencier(ère) invité(e)**

## **(I) Magnetic order and spin liquid physics in cluster Mott insulators**

*Monday 7 June 2021 11:54 (5 minutes)*

I will discuss muon spin rotation ( $\mu$ SR), nuclear magnetic resonance (NMR) and thermodynamic measurements on several  $\text{Mo}_3\text{O}_8$ -based cluster Mott insulators consisting of a  $1/6$ th-filled breathing Kagome lattice. Depending on sometimes subtle structural differences between these various materials, a number of different magnetic phases can be stabilized, including possible quantum spin liquids: a long-range entangled state with emergent fractionalized excitations.

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**Session Classification:** M1-8 Frustrated Magnetism (DCMMP) / Magnétisme frustré (DPMCM)

**Track Classification:** Condensed Matter and Materials Physics / Physique de la matière condensée et matériaux (DCMMP-DPMCM)