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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 (μ SR), nuclear magnetic resonance (NMR) and thermodynamic measurements on several Mo_3O_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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Track Classification: Condensed Matter and Materials Physics / Physique de la matière condensée et matériaux (DCMMP-DPMCM)