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## **WITHDRAWN - Quantum Spin Liquid in Frustrated Magnets with Strong Spin-Orbit Coupling**

We discuss recent theoretical progress in understanding possible quantum spin liquid phases and their experimental signatures in frustrated quantum magnets with strong spin-orbit coupling. These developments are directly motivated by very recent experiments on  $\alpha$ -RuCl<sub>3</sub> and pressurized  $\beta$ -Li<sub>2</sub>IrO<sub>3</sub>. We explain how various bond-dependent interactions, such as the Kitaev interaction, arise in such systems and investigate the global phase diagram of relevant theoretical models. We use these results to make connection to recent and future experiments.

**Presenter:** Prof. KIM, Yong-Baek

**Session Classification:** T3-1 Geometrically Frustrated Materials (DCMMP) | Matériaux géométriquement frustrés (DPMCM)

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