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Topological Phases in Quantum Materials with Strong Spin-Orbit Coupling

Wednesday 31 May 2017 10:15 (30 minutes)

We discuss recent theoretical development in understanding emergent quantum phases of matter in correlated materials with strong spin-orbit coupling, especially in 4d and 5d transition metal oxides. In particular, we explain what kind of material platforms may be promising for discoveries of exotic quantum states such as quantum spin liquid and Weyl semimetal phases. Experimental signatures and possible applications of these phases will also be discussed.

Presenter: Dr KIM, Yong Baek (University of Toronto)

Session Classification: W-MEDAL1 CAP Brockhouse Medal Talk - Youg Baek Kim, Université de Toronto