北京大学量子材料科学中心

International Center for Quantum Materials, PKU

Weekly Seminar

Time: 4:00pm, March. 8, 2017 (Wednesday)

: 2017 3 8 4:00

Venue: Room w563, Physics building, Peking University

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Symmetry plays a fundamental role in our understanding of both conventional symmetry breaking phases and the more exotic quantum and topological phases of matter. We explore the experimental signatures of symmetry enriched U(1) quantum spin liquids (QSLs) on the pyrochlore lattice. We point out that the Ce local moment of the newly discovered pyrochlore QSL candidate $Ce_2Sn_2O_7$, is a dipole-octupole doublet. The generic model for these unusual doublets supports two distinct symmetry enriched U(1) QSL ground states in the