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Neutron Scattering Studies of Quantum Magnets

Wednesday, 11 December 2019 10:15 (45 minutes)

Quantum magnetism studies the behaviour of magnetic materials where quantum fluctuations are strong and give rise to exotic behaviours not found in conventional magnets. It is possible to make model materials engineered for exhibit specific quantum. Of the experimental techniques available, neutron scattering has provided the deepest insights and most quantitative comparison to theory as will be illustrated by specific examples ranging from spin chains to frustrated magnets and spin liquids. New directions in this field will be outlined and the potential opportunities provided by new neutron instruments and sources.

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