

SFB 608

Einladung zum Kolloquium

Ort: Universität zu Köln
II. Physikalisches Institut, Seminarraum 201

andere Zeit: 06. Dezember 2006, 15:00 Uhr

Sprecher: F. Mila, EPFL Lausanne, CH

Thema: Quantum effects in frustrated magnetism: from quadrupolar order to supersolids

The hallmark of frustrated magnetism is the infinite degeneracy of the ground state when spins are treated as classical vectors. This very high degeneracy leads to a variety of remarkable phases when it is lifted by quantum fluctuations. In this talk, I will discuss three aspects of the problem with direct experimental implications: 1) Quadrupolar order in the spin-1 triangular lattice; 2) Magnetization plateaux in frustrated arrays of spin-1/2 dimers; 3) Exotic phases of bosonic models of frustrated magnets.

Gez. Prof. M. Vojta