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quantum transitions magnetization and thermal entanglement of the spin 1 ising heisenberg diamond chain

### quantum transitions magnetization and pdf

quantum transitions magnetization and thermal entanglement of the spin 1 ising heisenberg diamond chain  
QUANTUM PHASE TRANSITIONS 4 transitions, like order parameter field theories and their renormalization group analysis. Sec. 3 is devoted to the concrete description of several classes of bulk quantum phase transitions, where "bulk" refers to the fact that the whole system becomes critical. The

### Quantum phase transitions - arXiv

quantum transitions magnetization and thermal entanglement of the spin 1 ising heisenberg diamond chain exhibit a magnetization plateau at one-third of the saturation magnetization  $M_s$  due to the interplay of spin frustration and quantum fluctuation. In  $\text{Cs}_2\text{CuBr}_4$  that has a spatially anisotropic triangular lattice, successive magnetic-field induced quantum phase transitions including a magnetization plateau  $\frac{2}{3} M_s$  were observed. For  $\text{Ba}_3\text{NiSb}_2\text{O}$

### Magnetic-Field Induced Quantum Phase Transitions in

quantum transitions magnetization and thermal entanglement of the spin 1 ising heisenberg diamond chain Comparative analysis of entanglement and response functions (e.g. magnetization) at the points of quantum (entanglement) transitions might be crucial in understanding of some features of quantum phase transitions. In order to perform these comparisons we adopt negativity as computable measure of quantum entanglement. To get a better ...

### Quantum transitions, magnetization and thermal

quantum transitions magnetization and thermal entanglement of the spin 1 ising heisenberg diamond chain gram, describing various phase transitions induced by an applied magnetic field, is constructed. The corresponding quantum critical points are determined to highest accuracy, allowing a conclusive interpretation of recent experimental measurements. Moreover, the scaling properties of uniform magnetization and staggered transverse

### QUANTUM PHASE TRANSITIONS IN MAGNETIC SYSTEMS

quantum transitions magnetization and thermal entanglement of the spin 1 ising heisenberg diamond chain Magnetization plateau and quantum phase transitions in a spin-orbital model Zu-Jian Ying 1, 2, 3, Angela Foerster 2, Xi-Wen Guan 4, Bin Chen 1, Itzhak Roditi 3 1.

### (PDF) Magnetization plateau and quantum phase transitions

quantum transitions magnetization and thermal entanglement of the spin 1 ising heisenberg diamond chain Magnets, 1D quantum system, and quantum Phase transitions In 1D, fermions can be mapped into bosons, and vice versa. 10.1. magnetization and frustrated magnets (in any dimensions) Consider a lattice of spins. The Heisenberg model has the following Hamiltonian  $H = J \sum_{\langle ij \rangle} \vec{S}_i \cdot \vec{S}_j = J \sum_{\langle ij \rangle} (S_x^i S_x^j + S_y^i S_y^j + S_z^i S_z^j)$

### Magnets, 1D quantum system, and quantum Phase transitions

quantum transitions magnetization and thermal entanglement of the spin 1 ising heisenberg diamond chain nonequilibrium quantum states provides a significant challenge, calling for concepts that extend important principles such as universality to the nonequilibrium realm. A general approach towards this major goal is the theory of dynamical quantum phase transitions (DQPTs) [9], which extends the concept of phase transitions

and thus univer-

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