

Quantum phase transitions, driven by quantum fluctuations, exhibit intriguing features offering the possibility of potentially new applications, e.g. in quantum information sciences. Major advances have been made in both theoretical and experimental investigations of the nature and behavior of quantum phases and transitions in cooperatively interacting many-body quantum systems. For modeling purposes, most of the current innovative and successful research in this field has been obtained by either directly or indirectly using the insights provided by quantum (or transverse field) Ising models because of the separability of the cooperative interaction from the tunable transverse field or tunneling term in the relevant Hamiltonian. Also, a number of condensed matter systems can be modeled accurately in this approach, hence granting the possibility to compare advanced models with actual experimental results. This work introduces these quantum Ising models and analyses them both theoretically and numerically in great detail. With its tutorial approach the book addresses above all young researchers who wish to enter the field and are in search of a suitable and self-contained text, yet it will also serve as a valuable reference work for all active researchers in this area.

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**Quantum Ising Phases and Transitions in Transverse Ising Models** : Quantum Ising Phases and Transitions in Transverse Ising Models (Lecture Notes in Physics Monographs) (9783540610335): Bikas K. **Quantum Ising Phases and Transitions in Transverse Ising Models** S. Suzuki et al., Quantum Ising Phases and Transitions in Transverse Ising Models., Lecture Notes in Physics 862, DOI 10.1007/978-3-642-33039-1\_2,. **Quantum Annealing - Springer** Lecture Notes in Physics Monographs Quantum Ising Phases and Transitions in Transverse Ising Models Dilute and Random Transverse Ising Systems. **Transverse Ising Chain (Pure System) - Springer** **Quantum Ising Phases and Transitions in Transverse Ising Models** Chapter (720 KB). Chapter. Quantum Ising Phases and Transitions in Transverse Ising Models. Volume 862 of the series Lecture Notes in Physics pp 225-289 **Quantum Ising Phases and Transitions in Transverse Ising Models** Chapter (379 KB). Chapter. Quantum Ising Phases and Transitions in Transverse Ising Models. Volume 862 of the series Lecture Notes in Physics pp 105-122 **Introduction - Springer** Lecture Notes in Physics 862. Quantum Ising Phases and Transitions in Transverse Ising Models. Bearbeitet von. Sei Suzuki, Jun-ichi Inoue, Bikas K. **Quantum Ising Phases and Transitions in Transverse Ising Models** Buy Quantum Ising Phases and Transitions in Transverse Ising Models (Lecture Notes in Physics) on ? FREE SHIPPING on qualified orders. **Quantum Ising Phases and Transitions in Transverse Ising Models - Google Books Result** Chapter (581 KB). Chapter. Quantum Ising Phases and Transitions in Transverse Ising Models. Volume 862 of the series Lecture Notes in Physics pp 179-223 **Transverse Ising Chain (Pure System) - Springer Link** Lecture Notes in Physics Monographs. Free Preview. © 1996. Quantum Ising Phases and Transitions in Transverse Ising Models. Authors: Chakrabarti, Bikas K., **Dilute and Random Transverse Ising Systems - Springer** Quantum Ising Phases and Transitions in Transverse Ising Models (Lecture Notes in Physics) eBook: Sei Suzuki, Jun-ichi Inoue, Bikas K. Chakrabarti: **Quantum Ising Phases and Transitions in Transverse Ising Models** We consider a long-range Ising antiferromagnet (LRIAF) put in a transverse field. (SK) model with the same LRIAF bias, also in presence of a transverse field. Lecture Notes in Physics vol 679 ed Das A and Chakrabarti B K (Heidelberg: Springer) p Quantum phase transition in a disordered long-range transverse Ising **ANNI Model in**

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