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Quantum Scaling In Many Body Systems crossover line which separates two different regimes for the behavior of  $K_{\sim}$  or of a scaling function  $f(K_{\sim})$ , in the non-critical part of the phase diagram, i.e. for  $(h/J) > (h/f)_{\sim}$ . Quantum scaling in many-body systems - ScienceDirect Quantum Scaling in Many-Body Systems. This book on quantum phase transitions has

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## **Quantum Scaling In Many Body Systems - bitofnews.com**

How a closed interacting quantum many-body system relaxes and dephases as a function of time is a fundamental question in thermodynamic and statistical physics. In this Letter, we analyze and observe the persistent temporal fluctuations after a quantum quench of a tunable long-range interacting transverse-field Ising Hamiltonian realized with a trapped-ion quantum simulator.

## **Many-Body Dephasing in a Trapped-Ion Quantum Simulator**

Quantum Scaling in Many-Body Systems : An Approach to Quantum Phase Transitions, Hardcover by Continentino, Mucio, ISBN 1107150256, ISBN-13 9781107150256, Brand New, Free shipping Focusing on experimental results, this updated edition approaches the problem of quantum phase transitions from a new and unifying

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perspective.

## **Quantum Scaling in Many-Body Systems : An Approach to ...**

The many-body problem is a general name for a vast category of physical problems pertaining to the properties of microscopic systems made of many interacting particles. Microscopic here implies that quantum mechanics has to be used to provide an accurate description of the system. A large number can be anywhere from three to infinity (in the case of a practically infinite, homogeneous or ...

## **Many-body problem - Wikipedia**

Quantum Zeno Effect and the Many-body Entanglement Transition Yaodong Li,  
1Xiao Chen,<sup>2</sup> and Matthew P. A. Fisher  
1Department of Physics, University of California, Santa Barbara, CA 93106, USA  
2Kavli Institute for Theoretical Physics, University of California, Santa Barbara, CA 93106, USA (Dated: November 2, 2018) We introduce and

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explore a one-dimensional "hybrid"  
quantum circuit model ...

### **Quantum Zeno Effect and the Many-body Entanglement Transition**

Solving quantum many-body problems usually entails finding either the system's ground state or the dynamics of the system's time evolution. That can be achieved through an RBM-based variational learning algorithm adopted by Carleo and Troyer in the same paper in which they introduced the RBM representation. 8 8. G.

### **Machine learning meets quantum physics: Physics Today: Vol ...**

Recent interest in aspects common to quantum information and condensed matter has prompted a flurry of activity at the border of these disciplines that were far distant until a few years ago. Numerous interesting questions have been addressed so far. Here an important part of this field, the properties of the entanglement in many-

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body systems, are reviewed.

## **Rev. Mod. Phys. 80, 517 (2008) - Entanglement in many-body ...**

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Transitions Mucio Continentino Quantum  
phase transitions are strongly relevant in  
a number of fields, ranging from  
condensed matter to cold atom physics  
and quantum field theory.

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## **Quantum Scaling in Many-Body Systems by Mucio Continentino**

MANY-BODY PHYSICS Solving the quantum many-body problem with artificial neural networks Giuseppe Carleo<sup>1\*</sup> and Matthias Troyer<sup>1,2</sup> The challenge posed by the many-body problem in quantum physics originates from the difficulty of describing the nontrivial correlations encoded in the exponential complexity of the many-body wave function.

## **Solving the quantum many-body problem with artificial ...**

Continentino, Quantum scaling in many-body systems represents a crossover



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line which separates two different regimes for the behavior of  $K_{\sim}$  or of a scaling function  $f(K_{\sim})$ , in the non-critical part of the phase diagram, i.e. for  $(h/J) > (h/f)_{\sim}$ .

## **Quantum scaling in many-body systems - ScienceDirect**

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We show the existence of a new energy scale, related to the quantum nature of the many-body instability, which can be generally associated with the setting of Fermi-liquid behavior with decreasing temperature in three-dimensional strongly interacting electronic systems.

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## **Quantum scaling in many-body systems - NASA/ADS**

Coupled cluster (CC) is a numerical technique used for describing many-body systems. Its most common use is as one of several post-Hartree-Fock ab initio quantum chemistry methods in the field of computational chemistry, but it is also used in nuclear physics. Coupled cluster essentially takes the basic Hartree-Fock molecular orbital method and constructs multi-electron wavefunctions using ...

## **Coupled cluster - Wikipedia**

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