

## Quantum Phase Transitions In Transverse Field Spin Models From Statistical Physics To Quantum Information

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### Quantum Phase Transitions In Transverse

Hegde, Suraj Shivamoggi, Vasudha Vishveshwara, Smitha and Sen, Diptiman 2015. Quench dynamics and parity blocking in Majorana wires. New Journal of Physics, Vol. 17 ...

### Quantum Phase Transitions in Transverse Field Spin Models

A coherent condensate of exciton-polaritons, extending spatially up to 4  $\mu\text{m}$  and spin-polarizable with an external magnetic field, is observed at cryogenic temperatures in a MoSe<sub>2</sub> monolayer embedded in ...

### Bosonic condensation of exciton-polaritons in an atomically thin crystal

There are various reasons for which high temperature superconductivity in the cuprates is a hard problem but it is now clear that one of these reasons is that, in some instances, the superconducting ...

### IQ / QM Canada : Marc-Henri Julien

Is there a quantum version of a water-like phase transition? "The current directions in quantum magnetism and spintronics require highly spin-anisotropic interactions to produce the physics of ...

### Water and quantum magnets share critical physics

By altering the trapping conditions, they demonstrated that the system provides a powerful platform with which to explore the complex dynamics and phase transitions occurring in dissipative quantum ...

### Observation of a non-Hermitian phase transition in an optical quantum gas

Here, we find that even in seemingly classical experimental regimes, light emission is fundamentally tied to the quantum coherence and correlations ... by free charged particles moving faster than the ...

### The coherence of light is fundamentally tied to the quantum coherence of the emitting particle

this book introduces readers to the basic theory of quantum phases, their phase transitions and their observable properties. This second edition begins with a new section suitable for an introductory ...

### Quantum Phase Transitions

Molecular quantum gases (that is ... Our work demonstrates the long-sought transition between atomic and molecular condensates, the bosonic analogue of the crossover from a BEC to a Bardeen ...

### Transition from an atomic to a molecular Bose-Einstein condensate

"This phase diagram includes the superconducting and topological phase transitions and points to where we could find a useful chemical composition for quantum computation materials," said Li.

### Mapping the electronic states in an exotic superconductor

We theoretically investigate the quantum-coherence properties of the cathodoluminescence (CL) emission produced by a temporally modulated electron beam. Specifically, we consider the quantum-optical ...

### Optical coherence transfer mediated by free electrons

The intrinsic scale limit of current quantum material hinders possible development of technology, thus the discovery of a new generation of quantum materials holds the key to technological revolutions ...

### Physicists develop a new algorithm solving a long standing problem in constrained quantum material models

A collision between relativistic ions will sometimes, if the temperatures/energies of the particles ... [+] are high enough, create a temporary state known as a quark-gluon plasma: where even ...

### How Falling Out Of Equilibrium Is The Best Thing That Ever Happened To Our Universe

This may underlie many phenomena we see around us, from neurons to bird flocks and quantum systems. There's a field of ... where the spontaneous motion is created is equivalent to a phase ...

### Physicists reveal how motion can be generated by frustration

Fahri Emre Öztürk, Tim Lappe, Göran Hellmann, Julian Schmitt, Jan Klaers, Frank Vewinger, Johann Kroha & Martin Weitz: Observation of a Non-Hermitian Phase Transition in an Optical Quantum Gas.

### A new state of light

Recent breakthroughs in this emerging field have laid the foundation for the quantum computing space to go from theory to reality over the next several years. This transition will spark huge ...

### Best Quantum Computing Stocks for 2021

Above this "critical point," there is no longer a phase transition at all, and so by controlling its pressure water can be steered from liquid to gas without ever crossing one. Is there a quantum ...