

Quantum Coherence In Solid State Systems Volume 171 International School Of Physics Enrico Fermi Proceedings Of The International School Of Physics Enrico Fermi

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Quantum Coherence In Solid State

This book features the proceedings of the NATO Advanced Study Institute "Manipulating Quantum Coherence in Solid State Systems", held in Cluj-Napoca, Romania, August 2005, which presented a fundamental introduction to solid-state approaches to achieving quantum computation.

Manipulating Quantum Coherence in Solid State Systems ...

Macroscopic electron quantum coherence in a solid-state circuit. A team of researchers at the Centre de Nanosciences et de Nanotechnologies (C2N, CNRS/Univ. Paris-Saclay) has experimentally ...

Macroscopic electron quantum coherence in a solid-state ...

Quantum coherence, or superposition, between different states is one of the main features of quantum systems. This distinctive property, coherence, ultimately leads to a variety of other phenomena, e.g., entanglement 1,2.

Witnessing Quantum Coherence: from solid-state to ...

The term 'quantum coherence' represents the idea of a superpositioning that is at the heart of quantum mechanics and quantum computing. Specifically, quantum coherence contemplates a situation where an object's wave property is split in two, and the two waves coherently interfere with each other. Techopedia explains Quantum Coherence

What is Quantum Coherence? - Definition from Techopedia

Quantum coherence, or superposition, between different states is one of the main features of quantum systems. This distinctive property, coherence, ultimately leads to a variety of other phenomena,...

Witnessing Quantum Coherence: from solid-state to ...

Cartoon depiction of coherence time. The sphere surrounded by a bubble represents an isolated quantum state. Environmental disruptions cause a quantum superposition to dissipate. Here the final system has two distinguishable states, represented by blue and yellow poles and is no longer in a coherent quantum superposition. Credit: Edwards/JQI

Coherence Time: Survival of a Quantum State | Joint ...

Quantum coherence in many-body systems embodies the essence of entanglement and is an essential ingredient for a plethora of physical phenomena in quantum optics, quantum information, solid state physics, and nanoscale thermodynamics.

[1609.02439] Quantum Coherence as a Resource

Quantum Optics. Quantum Optics Overview; Self-assembled quantum dots; Solid-state photonic interfaces based on single quantum dots and quantum dot molecules; 2D Transport. 2D Transport Overview; Coupled Two-Dimensional Electron or Hole Gases; Electron hole bilayers; 1D Transport. 1D Transport Overview; Spin-charge separation in quantum wires

Solid-state photonic interfaces based on single quantum ...

The quantum description of imperfectly coherent paths is called a mixed state. A perfectly coherent state has a density matrix (also called the "statistical operator") that is a projection onto the pure coherent state and is equivalent to a wave function, while a mixed state is described by a classical probability distribution for the pure ...

Coherence (physics) - Wikipedia

In physics, specifically in quantum mechanics, a coherent state is the specific quantum state of the quantum harmonic oscillator, often described as a state which has dynamics most closely resembling the oscillatory behavior of a classical harmonic oscillator. It was the first example of quantum dynamics when Erwin Schrödinger derived it in 1926, while searching for solutions of the Schrödinger equation that satisfy the correspondence principle. The quantum harmonic oscillator and hence ...

Coherent state - Wikipedia

Quantum coherence Preferably, the coherence of a quantum state is quantified as its distance to the closest incoherent state. Usually, the properties of the coherence for a quantum state are referred to the diagonal elements of its density operator with regard to a selected reference basis.

Quantum coherence in quantum dot systems - ScienceDirect

Quantum Coherence. For modern medicine to be redefined in terms of full potentiality, the principle of Quantum Coherence is critical. Consciousness, coherence, and negentropy are interrelated concepts that are critical to the shift of our perception from disease toward health. These are common denominators in the management of healthcare.

Quantum Coherence - Quantum University

Heteronuclear correlation (HETCOR) spectroscopy is one of the key tools in the arsenal of the solid-state NMR spectroscopist to probe spatial proximity between two different nuclei and enhance spectral resolution. Dipolar heteronuclear multiple-quantum coherence (D-HMQC) is a powerful technique that can be potentially utilized to obtain 1H detected 2D HETCOR solid-state NMR spectra of any NMR ...

t1-Noise Eliminated Dipolar Heteronuclear Multiple-Quantum ...

especially pernicious for dense ensembles of electronic spins in the solid state, such as nitrogen-vacancy (NV) color centers in diamond. We report the use of two complementary techniques, spin-bath driving, and double quantum coherence magnetometry, to enhance the inhomogeneous spin dephasing time (T_2) for NV ensembles by more than an order of magnitude.

Ultralong Dephasing Times in Solid-State Spin Ensembles ...

"Our work also demonstrates that the same current cross-correlations idea can be used to measure coherence for the whole range of bosonic excitations, such as phonons and excitons, in solid-state ...

A method to determine magnon coherence in solid-state devices

Solid-state multilayers of colloiddally grown quantum dots (QDs) are highly promising for this task because of the possibility of assembling networks of electronically coupled QDs through the modulation of sizes, inter-dot linkers, and distances.

Room-Temperature Inter-Dot Coherent Dynamics in Multilayer ...

Quantum coherence, which arises from quantum superposition and marks the boundary between classical physics and quantum physics, is a characteristic property that drives abundant phenomena of quantum physics.

Quantum coherence of the spin-1 system under an XY spin ...

Chemistry Publications Chemistry 7-2-2020 t1-Noise Eliminated Dipolar Heteronuclear Multiple-Quantum Coherence Solid-State NMR Spectroscopy Amrit Venkatesh Iowa State University,

lib.dr.iastate.edu

The Solid State and Quantum Physics (SSQP) research program conducts experimental and theoretical research focused on quantum and cryogenic devices, and associated information theory. Our research groups are active in the broad research community and collaborate with academia, industry, and national laboratories.

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