

decoherence and quantum measurements pdf

Quantum decoherence is the loss of quantum coherence. In quantum mechanics, particles such as electrons are described by a wave function, a mathematical description of the quantum state of a system; the probabilistic nature of the wave function gives rise to various quantum effects.

Quantum decoherence - Wikipedia

Quantum computing is computing using quantum-mechanical phenomena, such as superposition and entanglement. A quantum computer is a device that performs quantum computing.

Quantum computing - Wikipedia

Researchers throughout the world are struggling to build quantum computers. One of the great challenges is to overcome the sensitivity of quantum systems to decoherence, the collapse of ...

Unconventional superconductor may be used to create

Quantum mechanics (QM) is the part of physics that tells how the things that make up atoms work. QM also tells how electromagnetic waves (like light) work.

Quantum mechanics - Simple English Wikipedia, the free

Utilizing the tools of quantum optics to prepare and manipulate quantum states of motion of a mechanical resonator is currently one of the most promising routes to explore non-•classicality at a macroscopic scale.

Annalen der Physik: Vol 527, No 1-2 - onlinelibrary.wiley.com

We propose a protocol for quantum state tomography of nonclassical states in optomechanical systems. Using a parametric drive, the procedure overcomes the challenges of weak optomechanical coupling, poor detection efficiency, and thermal noise to enable high efficiency homodyne measurement.

Quantum Physics authors/titles "new" - arXiv

The Many-Worlds Interpretation (MWI) of quantum mechanics holds that there are many worlds which exist in parallel at the same space and time as our own. The existence of the other worlds makes it possible to remove randomness and action at a distance from quantum theory and thus from all physics

Many-Worlds Interpretation of Quantum Mechanics (Stanford

Quantum theorists have shown that decoherence gives rise to the kind of behavior seen in classical physics. And experimentalists have proved it in experiments that can control the rate of decoherence, where the characteristic quantum effects such as wavelike interference of particles gradually vanish as decoherence proceeds.

Real-Life Schrödinger's Cats Probe the Boundary of the

The quantum wave function is moving in hidden extradimensions of space-time with speed, which exceeds the speed of light. There are the phase waves, of which we understand the EM variety.

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