

decoherence of spatially separated pdf

In quantum mechanics, a singlet state usually refers to a system in which all electrons are paired. The term 'singlet' originally meant a linked set of particles whose net angular momentum is zero, that is, whose overall spin quantum number = 0. As a result, there is only one spectral line of a singlet state. In contrast, a doublet state contains one unpaired electron and shows splitting of ...

Singlet state - Wikipedia

Quantum entanglement is a physical phenomenon which occurs when pairs or groups of particles are generated, interact, or share spatial proximity in ways such that the quantum state of each particle cannot be described independently of the state of the other(s), even when the particles are separated by a large distance—instead, a quantum state must be described for the system as a whole.

Quantum entanglement - Wikipedia

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.. Decoherence, then, is central to the current understanding of the ...

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The ϕ^4 model is coupled to an impurity in a way that preserves one-half of the BPS property. This means that the antikink-impurity bound state is still a BPS solution, i.e., a zero-pressure solution saturating the topological energy bound.

High Energy Physics - Theory authors/titles "new"

Magnetic order on the spatially anisotropic triangular lattice of $\alpha\text{-NaMnO}_2$ is studied via neutron diffraction measurements. The transition into a ...

Condensed Matter authors/titles "new" - arXiv

The over-arching presumption in modern science and philosophy is that consciousness emerges from complex synaptic computation in networks of brain neurons acting as fundamental information units.

Consciousness in the universe: A review of the Orch OR

Information Philosopher is dedicated to the new Information Philosophy, with explanations for Freedom, Values, and Knowledge.

John Stewart Bell - The Information Philosopher

This article is an overview of the philosophical issues raised by quantum theory, intended as a pointer to the more in-depth treatments of other entries in the Stanford Encyclopedia of Philosophy.

Philosophical Issues in Quantum Theory (Stanford)

Albert Einstein's work on quantum mechanics is of major importance to information philosophy, because we depend on a limited indeterminism and an "adequate" or statistical determinism to explain the possibilities in an open future needed to create new information. Einstein was in 1916 the discoverer of indeterminism and ontological chance, though he was reluctant to fully accept chance in his ...

Albert Einstein - The Information Philosopher

An experiment devised in Griffith University's Centre for Quantum Dynamics has for the first time demonstrated Albert Einstein's original conception of "spooky action at a distance" using a single ...

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