

Coherence And Quantum Optics Viii Proceedings Of The Eighth Rochester Conference On Coherence And Qu

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Coherence And Quantum Optics Viii

Journal of Modern Optics ... There is No Quantum Regression Theorem. Physical Review Letters, Vol. 77, Issue. 5, p. 798. Arimoto, Hidenobu and Ohtsuka, Yoshihiro 1996. Effects of spatial coherence and ...

Optical Coherence and Quantum Optics

Coherent emission of light by free charged particles is believed to be successfully captured by classical electromagnetism in all experimental settings. However, recent advances triggered fundamental ...

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

This Review discusses the photophysical properties and nonlinear behaviour of single molecules, and their use as single-photon sources and in single-molecule sensing and quantum-sensing applications.

Single organic molecules for photonic quantum technologies

A coherent condensate of exciton-polaritons, extending spatially up to 4 μm and spin-polarizable with an external magnetic field, is observed at cryogenic temperatures in a MoSe₂ monolayer embedded in ...

Bosonic condensation of exciton-polaritons in an atomically thin crystal

These instabilities limit the power and/or the coherence of the emitted laser beam. On the other hand, it opens the possibility to investigate a rich spectrum of self-organization phenomena in lasers ...

Nonlinear optics and quantum optics

Coherence functions and phonon statistics cavity quantum electrodynamics quantum theory of the laser Einstein-Podolsky-Rosen-paradox and Bell's inequalities quantum information processing C.

Theoretical Quantum Optics II

These states, in principle, can hold quantum coherence for a long time. So basically, it means you can have super-positions of states. That's kind of the basic ingredient for all this quantum ...

A New Breakthrough in Quantum Computing is Set to Transform Our World

Light can be used to operate quantum information processing systems ... Researchers speak of 'coherence lifetime'," explains Professor Mario Ruben, head of the Molecular Materials research ...

A molecule that responds to light

New approaches from the quantum world, however ... before the overlying layers of turbulent air disrupt their phase or coherence. Such constraints have limited the baselines of optical ...

Quantum Astronomy Could Create Telescopes Hundreds of Kilometers Wide

and particularly quantum computing, you want your materials to be extremely quiet. This tends to mean that you need to minimize the number of defects, because they can cause noise that would affect ...

Why quantum technologists need materials scientists (and vice versa)

Interferometric optical communications can potentially lead to robust, secure, and naturally encrypted long-distance laser communications in space by taking advantage of the underlying physics of ...

Interferometry: Quantum entanglement physics secures space-to-space interferometric communications

4 Department of Physics, Institute for Quantum Electronics, ETH Zürich, 8092 Zürich, Switzerland. 5 Institut für Experimentalphysik, Universität Innsbruck, 6020 Innsbruck, Austria. 6 IBM Quantum, IBM ...

Materials challenges and opportunities for quantum computing hardware

Current problems of interest are: Theoretical Quantum Optics: Spontaneous emission quenching; Control of the group velocity of light via atomic coherence effects; Determination of the center-of-mass ...

Department of Physics

"In order to develop practically applicable quantum computers, the superposition states of a qubit should persist for a sufficiently long time. Researchers speak of 'coherence lifetime,'" explains ...

A novel light-spin interface with europium(III) molecule advances development of quantum computers

Achieving the immense promise of quantum computing requires new developments ... and the crystal lattice can help protect their coherence and mutual entanglement. The result is a physically ...

Ion beams mean a quantum leap for color-center qubits

The research has a wide range of applications, including condensed-matter, astronomy, quantum optics, chemistry, test and measurement in the semiconductor industry, materials characterization, and ...

Physics and Engineering Research Areas

This book presents a systematic account of optical coherence theory within the framework of classical optics, as applied to such topics as radiation from sources of different states of coherence, ...

