

Decay Of Quantum Coherences Under The Influence Of A

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EXPLORING PUBLICATION SUMMARIES OF DECAY OF QUANTUM COHERENCES UNDER THE INFLUENCE OF A

Quantum Dissipative Systems Springer Science & Business Media
 Quantum Entanglement Manipulation - Quantum Algorithms - Quantum Complexity - Quantum Error Correction - Quantum Channels - Entanglement Purification and Long-Distance Quantum Communication - Quantum Key Distribution - Cavity Quantum Electrodynamics - Quantum Computation with Ion Traps - Josephson Junctions and Quantum Computation - Quantum Computing in Optical Lattices - Quantum Computation and Quantum Communication with Electrons - NMR Quantum Computing.

Multidimensional NMR Methods for the Solution State John Wiley & Sons

This volume presents the latest advancements and future developments of atomic, molecular and optical (AMO) physics and its vital role in modern sciences and technologies. The

chapters are devoted to studies of a wide range of quantum systems, with an emphasis on understanding of quantum coherence and other quantum phenomena originated from light-matter interactions. The book intends to survey the current research landscape and to highlight major scientific trends in AMO physics as well as those interfacing with interdisciplinary sciences. The volume may be particularly useful for young researchers working on establishing their scientific interests and goals. Contents: Collective Phenomena and Long-Range Interactions in Ultracold Atoms and Molecules: Quantum Magnetism with Ultracold Molecules (M L Wall, K R A Hazzard and A M Rey) Optical Manipulation of Light Scattering in Cold Atomic Rubidium (R G Olave, A L Win, K Kemp, S J Roof, S Balik, M D Havey, I M Sokolov and D V Kupriyanov) Seeing Spin Dynamics in Atomic Gases (D M Stamper-Kurn) Atom-like Coherent Solid State Systems: Precision Magnetic Sensing and Imaging Using NV-Diamond (R L Walsworth) Entanglement and Quantum Optics with Quantum Dots (A P Burgers, J R Schaibley and D G Steel) Coherent Nanophotonics and Plasmonics: Enhancement of Single-Photon Sources with Metamaterials (M Y Shalaginov, S Bogdanov, V V Vorobyov, A S Lagutchev, A V Kildishev, A V Akimov, A Boltasseva and V M Shalaev) Linear Optical Properties of Periodic Hybrid Materials at Oblique Incidence: A Numerical Approach (A Blake and M Sukharev) Fundamental Physics: An Introduction to Boson-Sampling (B T Gard, K R Motes, J P Olson, P P Rohde and J P Dowling) New Approach to Quantum Amplification by Superradiant Emission of Radiation (G Shchedrin, Y Rostovtsev, X Zhang and M O Scully) Ultrafast Dynamics in Strong Laser Fields: Circularly Polarized Attosecond Pulses and Molecular Attomagnetism (A D Bandrauk and K-J Yuan) Many-Electron Response of Gas-Phase Fullerene Materials to Ultraviolet and Soft X-ray Photons (H S Chakraborty and M Magrakvelidze) Ultracold Chemistry: Collisions and Reactions in Ultracold Gases (N Balakrishnan and J Hazra) Readership: For professional researchers as well as young academics in the field of Atomic, Molecular and Optical (AMO) physics. Key Features: The contributors for this volume are all internationally recognized experts in their fields. This book offers a unique overview of the state of current AMO physics, while outlining future directions. No comparable titles have been identified so far (by editors or by reviewers). All contributions include new unpublished research, and will be of interest for anyone pursuing the scientific investigations in the presented areas. Keywords: Quantum Coherence; Amo; Atomic Physics; Quantum Control; Ultracold Atoms; Ultracold Molecules; Nv-diamonds; Quantum Dots; Quantum Magnetism; Nanophotonics; Plasmonics; Ultrafast Dynamics; Ultracold Chemistry

Quantum Optics World Scientific

This book discusses fundamental problems in quantum physics, with emphasis on quantum coherence and decoherence. Papers covering the wide range of quantum physics are included: atom optics, quantum optics, quantum computing, quantum information, cryptography, macroscopic quantum phenomena, mesoscopic physics, physics of precise measurements, and fundamental problems in quantum physics. The book will serve not only as a good introduction to quantum coherence and decoherence for newcomers in this field, but also as a reference for experts. Contents: Quantum Computing: Decoherence and Dephasing in Spin-Based Solid State Quantum Computers (S Das

Sarma et al.)Quantum-State Manipulations in a Cooper-Pair Box (Y Nakamura et al.)Quantum State Engineering and Josephson Junctions: Charge and Flux Detectors (Yu Makhlin et al.)Quantum Information, Quantum Teleportation, and Entanglement:High-Fidelity Experimental Quantum Teleportation and Entanglement Swapping (A Zeilinger et al.)Experimental Realization of Continuous-Variable Teleportation (A Furusawa)Quantum Optics:Entanglement Manipulation with Atoms and Photons in a Cavity (S Haroche)Generation of Single Photons and Entangled Photon Pairs from a Quantum Dot (Y Yamamoto et al.)Twin Photon Beams for Single Photon Generation (S Takeuchi)Bose-Einstein Condensation and Atom Interferometry:Quantized Vortices in a Bose-Einstein Condensate (J Dalibard et al.)Vortex Excitations in a Bose-Einstein Condensate (S Inouye et al.)Mesoscopic Magnets:Environmental Effects on Quantum Reversal of Mesoscopic Spins (B Barbara et al.)Resistance of Geometrically Confined Magnetic Domain Wall (T Ono et al.)Single Electronics and Superconductors:A Single-Photon Detector in the Far-Infrared Range (O Astafiev et al.)Nanoscale Physics and Atomics:Quantized Conductance of Gold Nanowire Studied by UHV-Electron Microscope with STM (K Takayanagi)Quantum Transport:Quantum Transport in Two-Dimensional Electron Gas in Ultra-Short Period Lateral Superlattices (Y Iye et al.)Enhanced Tunnel Magnetoresistance in Ferromagnetic Single Electron Transistor (R Matsuda et al.)Precise Measurements:Oscillation Phenomena in High Energy Physics: CP Violation in B-Meson Decays and Long Baseline Neutrino Oscillation (K Nakamura)Dynamic Observation of Vortices in High-Tc Superconductors (A Tonomura)Precision Optical Frequency Metrology Using Pulsed Lasers (Th Udem et al.)Interferometric Gravitational Wave Detector in Japan (N Mio)Fundamental Problems in Quantum Physics:Quantum Information Aspects of Black Hole (A Hosoya)and other papers

Readership: Undergraduates, graduate students and researchers in quantum physics, atomic physics and optics. Keywords:

ISQM--Tokyo '01 : Advanced Research Laboratory, Hitachi, Ltd., Hatoyama, Saitama, Japan, 27-30 August 2001 World Scientific

This volume presents the written versions of papers that were delivered at the Third Rochester Conference on Coherence and Quantum Optics, held on the campus of the University of Rochester during the three days of June 21-23, 1972. The Conference was a sequel to two earlier meetings devoted to the same field of modern physics, that were also held in Rochester in 1960 and in 1966. The scope of the Conference was largely confined to basic problems in the general area of optical coherence and quantum optics, and excluded engineering applications that are well covered by other meetings. Approximately 250 scientists from 9 countries participated, most of whom are active workers in the field. Altogether 72 papers, including 26 invited papers, were presented in 17 sessions. The papers dealt mainly with the subjects of resonant pulse propagation, lasers, quantum electrodynamics and alternative theories, optical coherence, coherence effects in spontaneous emission, light scattering, optical correlation and fluctuation measurements, coherent light interactions and quantum noise. The program was organized by a committee consisting of N. Bloembergen (Harvard University) J. H. Eberly (University of Rochester) E. L. Hahn (University of California at Berkeley) H. Haken (University of Stuttgart, Germany) M. Lax (City College of New York) B. J. Thompson (University of Rochester) L. Mandel (University of Rochester) }Joint secretaries E.

Quantum Superposition Academic Press

This volume presents a review of the research in several areas of modern optics written by experts well-known in the international

scientific community. The first chapter discusses properties and methods of production and detection of coherent superpositions of macroscopically distinguishable states of light (the so-called Schrodinger cat states). Chapter two deals with the phase-shift method, which originated in the 1930s, for the analysis of potential-scattering problems in atomic and nuclear physics. Recently this approach has been applied to wave propagation in one-dimensional inhomogeneous media. Chapter three is concerned with the statistical properties of dynamic laser speckles that arise from scattering objects with rough surfaces undergoing translation and rotation. A moving phase-screen model is employed, which gives a relatively simple formulation of the theory and a clear picture of the time-varying speckle phenomenon. The fourth chapter presents a review of the more important theoretical and experimental results relating to optics of multilayer systems with randomly rough boundaries. The significant theoretical approaches which make it possible to interpret experimental data involving such systems are described, and relevant methods for optical characterization of systems of this kind are outlined. The last chapter presents an account of a theory of the photon transport through turbid media.

From Atomic to Mesoscale Springer Science & Business Media

Dedicated to the memory of Franco Bassani, the former President of the Societa Italiana di Fisica, this volume gives an overview of the manifestations of quantum coherence in different solid state systems, including semiconductor confined systems, magnetic systems, crystals and superconductors.

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Femtochemistry: Ultrafast Dynamics of the Chemical Bond
Springer Science & Business Media

The Eighth Rochester Conference on Coherence and Quantum Optics was held on the campus of the University of Rochester during the period June 13-16,2001. This volume contains the proceedings of the meeting. The meeting was preceded by an affiliated conference, the International Conference on Quantum Information, with some overlapping sessions on June 13. The proceedings of the affiliated conference will be published separately by the Optical Society of America. A few papers that were presented in common plenary sessions of the two conferences will be published in both proceedings volumes. More than 268 scientists from 28 countries participated in the week long discussions and presentations. This Conference differed from the previous seven in the CQO series in several ways, the most important of which was the absence of Leonard Mandel. Professor Mandel died a few months before the conference. A special memorial symposium in his honor was held at the end of the conference. The presentations from that symposium are included in this proceedings volume. An innovation, that we believe made an important contribution to the conference, was the inclusion of a series of invited lectures chaired by CQO founder Emil Wolf, reviewing the history of the fields of coherence and quantum optics before about 1970. These were given by three prominent participants in the development of the field, C. Cohen-Tannoudji, I. F. Clauser, and R. I. Glauber.

Optics as a Key to High Technology University of Chicago Press

The Quantum MatrixHenry Bar's Perilous Struggle for Quantum CoherenceOxford University Press, USA

Progress in Optics World Scientific

Quantum Dynamics of Simple Systems will prove a useful tool for graduate students as well as experienced physicists and contains contributions from many leading experts in the field of Quantum Systems. The main objective is to provide an overview of the present range of Quantum Toys and to instruct newcomers in their use and exotic behaviours. In this respect it covers specific subjects of quantum dynamics in a competent and detailed way with the emphasis upon simple systems where few atoms or electrons are involved.

Advances in Biophysical Chemistry Springer

"Anyone who is not shocked by quantum theory has not understood it." Since Niels Bohr said this many years ago, quantum mechanics has only been getting more shocking. We now realize that it's not really telling us that "weird" things happen out of sight, on the tiniest level, in the atomic world: rather, everything is quantum. But if quantum mechanics is correct, what seems obvious and right in our everyday world is built on foundations that don't seem obvious or right at all—or even possible. An exhilarating tour of the contemporary quantum landscape, *Beyond Weird* is a book about what quantum physics really means—and what it doesn't. Science writer Philip Ball offers an up-to-date, accessible account of the quest to come to grips with the most fundamental theory of physical reality, and to explain how its counterintuitive principles underpin the world we experience. Over the past decade it has become clear that

quantum physics is less a theory about particles and waves, uncertainty and fuzziness, than a theory about information and knowledge—about what can be known, and how we can know it. Discoveries and experiments over the past few decades have called into question the meanings and limits of space and time, cause and effect, and, ultimately, of knowledge itself. The quantum world Ball shows us isn't a different world. It is our world, and if anything deserves to be called "weird," it's us.

Quantum Coherence Correlation and Decoherence in Semiconductor Nanostructures Elsevier

This classic text provides an excellent introduction to a new and rapidly developing field of research. Now well established as a textbook in this rapidly developing field of research, the new edition is much enlarged and covers a host of new results.

Springer Science & Business Media

The present level of experimental sophistication in quantum physics allows physicists to explore domains unimaginable just a decade ago and to test the most fundamental laws of quantum mechanics. This has led to renewed interest in devising new tests, experiments, and devices where it is possible to observe the interaction and localization of just a few atoms or photons. These techniques have been used to reveal new nonclassical effects, to question the limit of the principle of correspondence, and to force quantum behavior in semiconductors. With contributions from leading experts in quantum systems, *Quantum Dynamics of Simple Systems* provides an overview of the present range of quantum dynamics, exploring their use and exotic behaviors. It covers specific subjects of quantum dynamics in a competent and detailed way with emphasis on simple systems where few atoms or electrons are involved. This volume will prove to be a useful tool for graduate students as well as experienced physicists.

BENEFITS OF DECAY OF QUANTUM COHERENCES UNDER THE INFLUENCE OF A PUBLICATION SUMMARIES

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2. SCHEDULE REVIEW WEBSITES

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3. CURATED COLLECTIONS

Quantum Dynamics of Simple Systems, Academic Press

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. This proceedings volume describes the properties of quantum coherence in semiconductor spin-based systems and the behavior of quantum coherence in superconducting systems.

Beyond Weird Springer Science & Business Media

Keywords: "This two-volume set provides an excellent source of information on the state of the art in femtosecond spectroscopy. It is an invaluable reference for experts in the field as well as those interested in mastering the experimental and theoretical aspects of ultrafast time-resolved spectroscopy." J Am Chem Soc. (Volumes I & II) Springer Science & Business Media

This book discusses fundamental problems in quantum physics, with emphasis on quantum coherence and decoherence. Papers covering the wide range of quantum physics are included: atom optics, quantum optics, quantum computing, quantum information, cryptography, macroscopic quantum phenomena, mesoscopic physics, physics of precise measurements, and fundamental problems in quantum physics. The book will serve not only as a good introduction to quantum coherence and decoherence for newcomers in this field, but also as a reference for experts. Contents: Quantum Computing: Decoherence and Dephasing in Spin-Based Solid State Quantum Computers (S Das Sarma et al.); Quantum-State Manipulations in a Cooper-Pair Box (Y Nakamura et al.); Quantum State Engineering and Josephson Junctions: Charge and Flux Detectors (Yu Makhlin et al.); Quantum Information, Quantum Teleportation, and Entanglement: High-Fidelity Experimental Quantum Teleportation and Entanglement Swapping (A Zeilinger et al.); Experimental Realization of Continuous-Variable Teleportation (A Furusawa); Quantum Optics: Entanglement Manipulation with Atoms and Photons in a Cavity (S Haroche); Generation of Single Photons and Entangled Photon Pairs from a Quantum Dot (Y Yamamoto et al.); Twin Photon Beams for Single Photon Generation (S Takeuchi); Bose-Einstein Condensation and Atom Interferometry: Quantized Vortices in a Bose-Einstein Condensate (J Dalibard et al.); Vortex Excitations in a Bose-Einstein Condensate (S Inouye et al.); Mesoscopic Magnets: Environmental Effects on Quantum Reversal of Mesoscopic Spins (B Barbara et al.); Resistance of Geometrically Confined Magnetic Domain Wall (T Ono et al.); Single Electronics and Superconductors: A Single-Photon Detector in the Far-Infrared Range (O Astafiev et al.); Nanoscale Physics and Atomics: Quantized Conductance of Gold Nanowire Studied by UHV-Electron Microscope with STM (K Takayanagi); Quantum Transport: Quantum Transport in Two-Dimensional Electron Gas in Ultra-Short Period Lateral Superlattices (Y Iye et al.); Enhanced Tunnel Magnetoresistance in Ferromagnetic Single Electron Transistor (R Matsuda et al.); Precise Measurements: Oscillation Phenomena in High Energy Physics: CP Violation in B-Meson Decays and Long Baseline Neutrino Oscillation (K Nakamura); Dynamic Observation of Vortices in High-T_c Superconductors (A Tonomura); Precision Optical Frequency Metrology Using Pulsed Lasers (Th Udem et al.); Interferometric Gravitational Wave Detector in Japan (N Mio); Fundamental Problems in Quantum Physics: Quantum Information Aspects of Black Hole (A Hosoya); and other papers. Readership: Undergraduates, graduate students and researchers in quantum physics, atomic physics and optics.

Proceedings of the Seventh Rochester Conference on Coherence and Quantum Optics, held at the University of Rochester, June 7-10, 1995 CRC Press

The liquid crystalline state has been known for about a century and has been studied by many techniques. Nuclear magnetic

resonance has been used to study mesophases for thirty years, but it has been in very recent years that advances in this form of spectroscopy have led to a rapid growth in its applications to the study both of liquid crystals and of solutes dissolved in them. It has become apparent that no other method of studying liquid crystals can yield such a wealth of data and it is unrivalled as a means of probing the behaviour of the molecules in mesophases. There has also been a steady increase in the study of the shape of small molecules dissolved in liquid crystals via the analysis of their NMR spectrum. In fact, the study of solutes was until recently regarded as a separate activity to the study of liquid crystals themselves, but this artificial division arose only from the gap between the large amount of information that could be derived from the spectrum of a small molecule and the rather meagre data set obtainable from the spectra of liquid crystals. This gap has, however, narrowed and it is now possible to derive a very detailed picture of the structure and orientational ordering of the large molecules typical of those which form liquid crystals. There has also been a rapid growth of interest in the liquid crystalline state.

The Role of Quantum Coherence in Systems of Various Complexities Springer Science & Business Media

This series provides the chemical physics field with a forum for critical, authoritative evaluations of advances in every area of the discipline. Volume 131 includes chapters on: Polyelectrolyte Dynamics; Hydrodynamics and Slip at the Liquid-Solid Interface; Structure of Ionic Liquids and Ionic Liquid Compounds: Are Ionic Liquids Genuine Liquids in the Conventional Sense?; Chemical Reactions at Very High Pressure; Classical Description of Nonadiabatic Quantum Dynamics; and Non-Born Oppenheimer Variational Calculations of Atoms and Molecules with Explicitly Correlated Gaussian Basis Functions.

Advances in Chemical Physics Springer Nature

A clear and engaging discussion Written by a highly respected quantum physicist Puzzling phenomena made comprehensible Describes solutions to challenging quandries in physics

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REVIEW OF DECAY OF QUANTUM COHERENCES UNDER THE INFLUENCE OF A

- I live in Cherokee, NC, and had heard about people disappearing in the Smokies. When I saw this book in my library, I was surprised to learn somebody had documented the disappearances. I bought it and went to Clingmans Dome for an afternoon of reading and reflection. It was wonderul, and I came away with a new respect for the mountains, and felt great sorrow for those left behind.

- If you have not read him before, it may take some getting used to. Once you adapt to the idea that a sentence may contain dialogue from more than one person, take place at widely separated times and contain little or no punctuation, it is a wonderful book to read. The book moves between the present and the past. In the present a proof reader faces the consequences of having purposely changed a text entrusted to him, while in the past events unfold with history as amended by the proofreader. A wonderful book, but not a page turner