

Decay Of Quantum Coherences Under The Influence Of A Pdf

1993

Optics as a Key to High Technology

1993 International Commission for Optics. Congress

Quantum Dissipative Systems

1993-03-27 Ulrich Weiss This book deals with the statistical mechanics and dynamics of open quantum systems moving irreversibly under the influence of a dissipative environment. The basic concepts and methods are described on the basis of a microscopic description with emphasis on the functional integral approach. The general theory for the time evolution of the density matrix of the damped system is developed. Many of the sophisticated ideas in the field are explained with simple models. The discussion includes, among others, the interplay between thermal and quantum fluctuations, quantum statistical decay, macroscopic quantum tunneling and quantum coherence. Contents: IntroductionGeneral Theory:Traditional Approaches to Open Quantum SystemsSystem-Plus-Reservoir ModelsImaginary-Time Path IntegralsReal-Time Path Integrals and DynamicsSimple Dissipative Quantum Systems:Damped Harmonic OscillatorQuantum Brownian MotionQuantum-Statistical Decay:Introduction to the ProblemThe Crossover Temperature T0Thermally Activated DecayThe Crossover RegionDissipative Quantum TunnelingThe Dissipative Two-State System:IntroductionThermodynamicsTwo-State DynamicsDynamical SimulationThe Dissipative Multi-State System:IntroductionGeneral FormalismDynamics at Long Times Readership: Condensed matter and statistical physicists.

Nonequilibrium Statistical Physics

2013-03-14 Gerd Röpke Authored by a well-known expert in the field of nonequilibrium statistical physics, this book is a coherent presentation of the subject suitable for masters and PhD students, as well as postdocs in physics and related disciplines. Starting from a general discussion of irreversibility and entropy, the method of nonequilibrium statistical operator is presented as a general concept. Stochastic processes are introduced as a necessary prerequisite to describe the evolution of a nonequilibrium state. Different standard approaches such as master equations, kinetic equations and linear response theory, are derived after special assumptions. This allows for an insight into the problems of nonequilibrium physics, a discussion of the limits of the approaches, and suggestions for improvements. The method of thermodynamic Green's function is outlined that allows for the systematic quantum statistical treatment of many-body systems. Applications and typical examples are given, as well as fully worked problems.

Solid-State NMR IV Methods and Applications of Solid-State NMR

2012-12-06 B. Blümich Solid-State NMR is a branch of Nuclear Magnetic Resonance which is presently experiencing a phase of strongly increasing popularity. The most striking evidence is the large number of contributions from Solid-State Resonance at NMR meetings, approaching that of liquid state resonance. Important progress can be observed in the areas of methodological developments and applications to organic and inorganic matter. One volume devoted to more or less one of each of these areas has been published in the preceding three issues. This volume can be considered an addendum to this series. Selected methods and applications of Solid-State NMR are featured in three chapters. The first one treats the recoupling of dipolar interactions in solids, which are averaged by fast sample rotation. Following an introduction to effective Hamiltonians and Floquet theory, different types of experiment such as rotary resonance, dipolar chemical shift correlation spectroscopy, rotational resonance and multipulse recoupling are treated in the powerful Floquet formalism. In the second chapter, the different approaches to line narrowing of quadrupolar nuclei are reviewed in a consistent formulation of double resonance (DaR) and dynamic angle spinning (DAS). Practical aspects of probe design are considered as well as advanced 2D experiments, sensitivity enhancement techniques, and spinning sideband manipulations. The use of such techniques dramatically increases the number of nuclei which can be probed in high resolution NMR spectroscopy. The final chapter describes new experimental approaches and results of structural studies of noncrystalline solids.

Quantum Optics

2016-04-18 Miguel Orszag This new edition gives a unique and broad coverage of basic laser-related phenomena that allow graduate students, scientists and engineers to carry out research in quantum optics and laser physics. It covers quantization of the electromagnetic field, quantum theory of coherence, atom-field interaction models, resonance fluorescence, quantum theory of damping, laser theory using both the master equation and the Langevin theory, the correlated emission laser, input-output theory with applications to non-linear optics, quantum trajectories, quantum non-demolition measurements and generation of non-classical vibrational states of ions in a Paul trap. In this third edition, there is an enlarged chapter on trapped ions, as well as new sections on quantum computing and quantum bits with applications. There is also additional material included for quantum processing and entanglement. These topics are presented in a unified and didactic manner, each chapter is accompanied by specific problems and hints to solutions to deepen the knowledge.

Physics Briefs

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Progress in Optics

1995-12-01 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.

Advances in Magnetic and Optical Resonance

2013-10-22 Warren S. Warren Advances in Magnetic and Optical Resonance, Volume 17 reviews different developing branches of coherent spectroscopy, focusing on the incoherent radiation pulses in optics and magnetic resonance. This book is divided into two chapters. Chapter 1 summarizes the uses and occasional advantages of incoherent radiation pulses in optics and magnetic resonance. The second chapter reviews theoretical developments in zero-field NMR and ESR spectroscopies. Other topics include the nonlinear incoherent spectroscopy; stochastic nonlinear susceptibilities; nonlinear interferometer for magnetic resonance; and nonlinear interference and optics. The zero-field spin dynamics and relaxation and ZF line shapes in the presence of molecular reorientations are also covered. This publication is a good reference for students and researchers interested in coherent spectroscopy.

Quantum Communications and Measurement

2013-06-29 V.P. Belavkin The International Workshop on Quantum Communications and Measurement was held at the University of Nottingham from July 10-16, 1994. It followed the successful meeting on Quantum Aspects of Optical Communications in Paris in November 1990. This time the conference was devoted to mathematical, physical and engineering aspects of quantum noise, signal processing and quantum information in open systems, quantum channels, and optical communications. It brought research workers in the experimental and engineering aspects of quantum optics and communication systems into contact with theoreticians working in quantum probability and measurement theory. The workshop was attended by more than 130 participants from 22 different countries. The largest groups [after the UK (31)] were from Japan (19) and from Russia (14). The subjects discussed included the mathematical foundations of quantum communication systems, experiments and devices, the problem of collapse and continuous measurement, quantum input and output processes, causality and nondemolition observation, squeezed states, quantum jumps, state diffusion and spontaneous localization, filtering and control in quantum systems, and new quantum optical phenomena and effects, including non classical light. These new mathematical and physical ideas were stimulated by recent advances in generation and detection of light with low quantum noise and the development of techniques for trapping a single atom over an extended period of time, making it possible to observe individual quantum phenomena at the macroscopic level.

Official Gazette of the United States Patent and Trademark Office

1992

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Within the Whimsy Woods, where trees bore enchanted fruits and giggles echoed through the foliage, a storyteller named Fable spun tales that breathed life into the whimsical creatures that inhabited the enchanted groves. Each story unfolded as a vibrant chapter in the woodland saga.

Hope decay of quantum coherences under the influence

On the eve of the Great Convergence, when the stars aligned in cosmic harmony, a single shooting star streaked across the night sky, carrying with it the fate of a small coastal village named Luminara Cove. Unbeknownst to the villagers, the celestial visitor bore a message written in constellations, heralding a destiny that would unfold with the turning tides.

Story of" decay of quantum coherences under the influence

the sprawling metropolis of Neo-Elysium, where skyscrapers pierced the heavens and neon lights painted the streets in hues of artificial daylight, a subculture of reality hackers emerged. Armed with quantum keyboards and augmented reality lenses, they traversed the digital and physical realms, reshaping perceptions and challenging the very fabric of what it meant to exist.

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In the annals of time, where the threads of the past weave the tapestry of our existence, lies a tale of triumphs and tribulations that has shaped the course of humanity. Join me on a journey through the corridors of history as we uncover the forgotten whispers of our ancestors.

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