



Quantum Coherence in Mesoscopic Systems

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Quantum Coherence In Mesoscopic Systems

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Quantum Coherence In Mesoscopic Systems:

Quantum Coherence in Mesoscopic Systems, 1991 *Quantum Coherence In Mesoscopic Systems* B. Kramer, **New Perspectives in the Physics of Mesoscopic Systems** Renato Fedele, 1997 **Mesoscopic Systems** Yoshimasa Murayama, 2008-09-26 Future high tech applications such as nanotechnology require a deep understanding of the physics of mesoscopic systems These systems form a bridge between macroscopic systems governed by classical physics and microscopic systems governed by quantum physics This introduction discusses a variety of typical surface optical transport and magnetic properties of mesoscopic systems with reference to many experimental observations It is written for physicists materials scientists and engineers who want to stay abreast of current research or high tech development **Quantum Computing in Solid State Systems** Berardo Ruggiero, Per Delsing, Carmine Granata, Yuri A. Pashkin, P. Silvestrini, 2006-05-30 *Quantum Computation in Solid State Systems* discusses experimental implementation of quantum computing for information processing devices in particular observations of quantum behavior in several solid state systems are presented The complementary theoretical contributions provide models of minimizing decoherence in the different systems Most recent theoretical and experimental results on macroscopic quantum coherence of mesoscopic systems as well as the realization of solid state qubits and quantum gates are discussed Particular attention is given to coherence effects in Josephson devices Other solid state systems including quantum dots optical ion and spin devices are also discussed

Complexity from Microscopic to Macroscopic Scales: Coherence and Large Deviations A.T. Skjeltorp, Tamas Vicsek, 2012-12-06 Many mesoscopic systems display adaptive behaviour changes in some physical property that results from a small change in an internal or external driving force There is a kind of progression in adaptive phenomena from quantum mesoscopics to complex evolved cooperative systems and large scale events like turbulence The field of mesoscopic magnetism especially quantum coherence and quantum tunnelling in spin systems and the coupling between mesoscopic magnetism and mesoscopic transport is currently a very active area of solid state physics Dephasing is an important concept in mesoscopic systems like these A basic question is the limit at which quantum mechanics breaks down and what it can be replaced with Another interesting crossover is that between complexity and large excursions or events with turbulence as a prototype example The book also contains a discussion of finance Qualitatively speaking turbulence and financial markets are apparently similar so our understanding of turbulence may be relevant to understanding price fluctuations *Quantum Coherence in Mesoscopic and Macroscopic Systems* Moo Young Choi, Min-Chul Cha, Söul Taehakkyo. Center for Theoretical Physics, 1999 Macroscopic Quantum Coherence and Quantum Computing Dmitri V. Averin, Berardo Ruggiero, Paolo Silvestrini, 2012-12-06 This volume is an outgrowth of the Second International Workshop on Macroscopic Quantum Coherence and Computing held in Napoli Italy in June 2000 This workshop gathered a number of experts from the major Universities and Research Institutions of several countries The choice of the location which recognizes the role and the

traditions of Naples in this field guaranteed the participants a stimulating atmosphere The aim of the workshop has been to report on the recent theoretical and experimental results on the macroscopic quantum coherence of macroscopic systems Particular attention was devoted to Josephson devices The correlation with other atomic and molecular systems exhibiting a macroscopic quantum behaviour was also discussed The seminars provided both historical overview and recent theoretical ground on the topic as well as information on new experimental results relative to the quantum computing area The first workshop on this topic held in Napoli in 1998 has been ennobled by important reports on observations of Macroscopic Quantum Coherence in mesoscopic systems The current workshop proposed among many stimulating results the first observations of Macroscopic Quantum Coherence between macroscopically distinct fluxoid states in rf SQUIDS 20 years after the Leggett's proposal to experimentally test the quantum behavior of macroscopic systems Reports on observations of quantum behaviour in molecular and magnetic systems small Josephson devices quantum dots have also been particularly stimulating in view of the realization of several possible q bits

Quantum Computing and Quantum Bits in Mesoscopic Systems Anthony Leggett, Berardo Ruggiero, Paolo Silvestrini, 2004 Macroscopic Quantum Computing Conference Proceedings June 2002 Naples Italy

Quantum Entanglement and Information Processing Daniel Esteve, J.-M. Raimond, Jean Dalibard, 2004-12-13 Presents the lecture notes of the Les Houches Summer School on Quantum entanglement and information processing This book aims to establish connections between the communities of quantum optics and of quantum electronic devices working in the area of quantum computing It is useful for graduate students with a basic knowledge of quantum mechanics

Quantum Mechanics with Applications to Nanotechnology and Information Science Yehuda B. Band, Yshai Avishai, 2013-01-10 Quantum mechanics transcends and supplants classical mechanics at the atomic and subatomic levels It provides the underlying framework for many subfields of physics chemistry and materials science including condensed matter physics atomic physics molecular physics quantum chemistry particle physics and nuclear physics It is the only way we can understand the structure of materials from the semiconductors in our computers to the metal in our automobiles It is also the scaffolding supporting much of nanoscience and nanotechnology The purpose of this book is to present the fundamentals of quantum theory within a modern perspective with emphasis on applications to nanoscience and nanotechnology and information technology As the frontiers of science have advanced the sort of curriculum adequate for students in the sciences and engineering twenty years ago is no longer satisfactory today Hence the emphasis on new topics that are not included in older reference texts such as quantum information theory decoherence and dissipation and on applications to nanotechnology including quantum dots wires and wells This book provides a novel approach to Quantum Mechanics whilst also giving readers the requisite background and training for the scientists and engineers of the 21st Century who need to come to grips with quantum phenomena The fundamentals of quantum theory are provided within a modern perspective with emphasis on applications to nanoscience and nanotechnology and information technology Older

books on quantum mechanics do not contain the amalgam of ideas concepts and tools necessary to prepare engineers and scientists to deal with the new facets of quantum mechanics and their application to quantum information science and nanotechnology As the frontiers of science have advanced the sort of curriculum adequate for students in the sciences and engineering twenty years ago is no longer satisfactory today There are many excellent quantum mechanics books available but none have the emphasis on nanotechnology and quantum information science that this book has

Proceedings of the Fifth International Symposium on Quantum Confinement, Nanostructures M. Cahay,1999

Electron Tunneling and Its Applications Pasquale De Marco,2025-05-17 In a world governed by the enigmatic principles of quantum mechanics electron tunneling stands as a beacon of intrigue and innovation This captivating book unveils the secrets of this remarkable phenomenon where particles defy classical boundaries and penetrate potential barriers opening up a new frontier of possibilities in science and technology Journey with us as we delve into the captivating world of electron tunneling exploring its fundamental principles and unravelling its diverse applications From the intricacies of single electron tunneling and Coulomb blockade to the fascinating realm of mesoscopic systems and quantum coherence we unveil the hidden mechanisms that govern the behavior of matter at the nanoscale Discover the wonders of superconductivity and Josephson junctions where electrons dance in perfect unison enabling lossless energy transfer and paving the way for transformative technologies Explore the fascinating interplay between electron spin and magnetism in the realm of spintronics and magnetic tunneling leading to novel devices with unprecedented capabilities Witness the miniaturization of electronics as we venture into the realm of nanoelectronics and molecular electronics where devices approach atomic dimensions and molecular structures take on the role of electronic components Witness the potential of carbon nanotubes nanowires and single molecule devices as we push the boundaries of miniaturization and explore the possibilities of molecular scale computing Peer into the future of electron tunneling where the convergence of quantum mechanics and technology promises transformative applications Envision quantum computers harnessing the power of quantum tunneling to solve complex problems beyond the reach of classical computers Witness the development of ultra sensitive sensors and imaging techniques that exploit the unique properties of electron tunneling Explore the potential of electron tunneling in energy storage and conversion paving the way for efficient and sustainable energy solutions Electron Tunneling and Its Applications is an indispensable resource for scientists engineers and anyone captivated by the wonders of quantum mechanics This comprehensive guide unveils the mysteries of electron tunneling showcasing its profound implications for the future of science technology and society If you like this book write a review on google books

Decoherence And Quantum Measurements Mikio Namiki,Saverio Pascazio,Hiromichi Nakazato,1998-02-10 The quantum measurement problem is one of the most fascinating and challenging topics in physics both theoretically and experimentally It involves deep questions and the use of very sophisticated and elegant techniques After analyzing the fundamental principles of quantum mechanics and of the Copenhagen interpretation

this book reviews the most important approaches to the measurement problem and rigorously reformulates the collapse of the wave function by measurement as a dephasing process quantitatively characterized by an order parameter called the decoherence parameter according to the many Hilbert space approach to the problem. The book deals not only with the measurement processes including imperfect measurements but also with related interference and mesoscopic phenomena by means of general arguments of solvable models and of numerical simulations. The quantum Zeno effect and the issue of irreversibility are also discussed. *Resonant Tunneling in Semiconductors* L.L. Chang, E.E. Mendez, C. Tejedor, 2012-12-06

This book contains the proceedings of the NATO Advanced Research Workshop on Resonant Tunneling in Semiconductors Physics and Applications held at Escorial Spain on May 14-18 1990. The tremendous growth in the past two decades in the field of resonant tunneling in semiconductor heterostructures has followed if not outpaced the expansion witnessed in quantum structures in general. Resonant tunneling shares also the multi-disciplinary nature of that broad area with an emphasis on the underlying physics but with a coverage of material systems on the one end and device applications on the other. Indeed that resonant tunneling provides great flexibility in terms of materials and configurations and that it is inherently a fast process with obvious device implications by the presence of a negative differential resistance have contributed to the unrelenting interest in this field. These proceedings consist of 49 refereed articles they correspond to both invited and contributed talks at the workshop. Because of the intertwining nature of the subject matter it has been difficult to subdivide them in well defined sections. Instead they are arranged in several broad categories meant to serve only as guidelines of emphasis on different topics and aspects. The book starts with an introduction to resonant tunneling by providing a perspective of the field in the first article. This is followed by discussions of different material systems with various band structure effects. **Binding and Scattering in Two-Dimensional Systems** J. Timothy Londergan, John P. Carini, David P. Murdock, 2003-07-01

have advances in of The last few seen our understanding revolutionary years heterostructures. An amount the electronic of enormous properties quantum undertaken both the and the theoretical of research has been on experimental in nanostructures. The field vast of electronic now covers a aspects transport and extensive number of review of an books articles spectrum topics papers and conference continue to be in this area published. Complete proceedings of this and field is the of this book beyond exciting evolving scope coverage. We refer the interested reader to of the excellent and some comprehensive books and conference on this proceedings subject. Much has been made in our of confined understanding quantum progress. As is well it is to construct heterostructure known possible quantum systems tures which well as one dimensional are approximated quasi two dimensional zero dimensional. Our interest here is in the of or properties particles systems. We brief and fields in two dimensional a intro quasi 2 D systems provide duction to the of 2 D in to motion in 2 D systems particular systems physics the confined within finite. For we will assume that a area simplicity generally. Such confined is defined an infinite hard wall a by potential system boundary. We will 2 D will be referred to as a or

as a wire Handbook of Nanophysics Klaus D. Sattler, 2010-09-17 Providing the framework for breakthroughs in nanotechnology this landmark publication is the first comprehensive reference to cover both fundamental and applied physics at the nanoscale After discussing the theoretical principles and measurements of nanoscale systems the organization of the set follows the historical development of nanoscience Each peer reviewed chapter presents a didactic treatment of the physics underlying the nanoscale materials applications and detailed experimental results State of the art scientific content is enriched with fundamental equations and illustrations many in color Granular Nanoelectronics David K. Ferry, John R. Barker, Carlo Jacoboni, 2013-12-14 The technological means now exists for approaching the fundamental limiting scales of solid state electronics in which a single carrier can in principle represent a single bit in an information flow In this light the prospect of chemically or biologically engineered molecular scale structures which might support information processing functions has enticed workers for many years The one common factor in all suggested molecular switches ranging from the experimentally feasible proton tunneling structure to natural systems such as the micro tubule is that each proposed structure deals with individual information carrying entities Whereas this future molecular electronics faces enormous technical challenges the same limit is already appearing in existing semiconducting quantum wires and small tunneling structures both superconducting and normal meta devices in which the motion of a single electron through the tunneling barrier can produce a sufficient voltage change to cut off further tunneling current We may compare the above situation with today's Si microelectronics where each bit is encoded as a very large number not necessarily fixed of electrons within a charge pulse The associated reservoirs and sinks of charge carriers may be profitably tapped and manipulated to provide macro currents which can be readily amplified or curtailed On the other hand modern semiconductor ULSI has progressed by adopting a linear scaling principle to the downsizing of individual semiconductor devices *Introduction to Nanomaterials and Devices* Omar Manasreh, 2011-12-13 An invaluable introduction to nanomaterials and their applications Offering the unique approach of applying traditional physics concepts to explain new phenomena *Introduction to Nanomaterials and Devices* provides readers with a solid foundation on the subject of quantum mechanics and introduces the basic concepts of nanomaterials and the devices fabricated from them Discussion begins with the basis for understanding the basic properties of semiconductors and gradually evolves to cover quantum structures including single multiple and quantum wells and the properties of nanomaterial systems such as quantum wires and dots Written by a renowned specialist in the field this book features An introduction to the growth of bulk semiconductors semiconductor thin films and semiconductor nanomaterials Information on the application of quantum mechanics to nanomaterial structures and quantum transport Extensive coverage of Maxwell Boltzmann Fermi Dirac and Bose Einstein statistics An in depth look at optical electrical and transport properties Coverage of electronic devices and optoelectronic devices Calculations of the energy levels in periodic potentials quantum wells and quantum dots *Introduction to Nanomaterials and Devices* provides essential groundwork for understanding the

behavior and growth of nanomaterials and is a valuable resource for students and practitioners in a field full of possibilities for innovation and invention Nanostructured Superconductors Victor V. Moshchalkov, Joachim Fritzsche, 2011 The main focus of the book is to present the effects of nanostructuring on superconducting critical parameters Optimizing systematically flux and condensate confinement in various nanostructured superconductors ranging from single nano cells to their hu

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