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# Semiclassical Theory of Mesoscopic Quantum Systems



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# Semiclabbical Theory Of Mesoscopic Quantum Systems

**S Ashworth**



## **Semiclabbical Theory Of Mesoscopic Quantum Systems:**

**Semiclassical Theory of Mesoscopic Quantum Systems** Klaus Richter, 2000 This book describes manifestations of classical dynamics and chaos in the quantum properties of mesoscopic systems During the last two decades mesoscopic physics has evolved into a rapidly progressing and exciting interdisciplinary field of physics The first part of the book deals with integrable and chaotic classical dynamics with particular emphasis on the semiclassical description of spectral correlations thermodynamic properties and linear response functions The main part shows applications to prominent observables in the mesoscopic context *Mesoscopic Physics Meets Quantum Engineering* Sergey N Shevchenko, 2019-07-16 Quantum mechanics was initially constructed to describe objects on atomic and subatomic scales However in the last decades quantum mechanics has been revisited and its use extended to the study and description of macroscopic distinct states This is accomplished by modeling basic objects of mesoscopic physics such as superconducting quantum circuits and low dimensional structures derived from a two dimensional electronic gas In recent years these devices support the study of fundamental systems such as a two level quantum system or qubit as an object for manipulations and applications This book will provide an introduction to quantum computation and quantum information based on quantum physics solid state theory and theory of computing We will become familiar with this important field and explore how it is inseparably linked to basic notions of physics such as superposition entanglement and quantum dynamics Then we will consider superconducting and mesoscopic systems as well as a series of phenomena where important are the spectra quantization interference and charge discreteness This book derives its content from a lecture course designed for graduate students and postdocs who are acquainted with quantum mechanics and statistical physics In particular it was developed together with the lecture series taught to 5th year students of the Department of Physics and Technology in V N Karazin Kharkiv National University

**Quantum Chaos and Mesoscopic Systems** N.E. Hurt, 2013-03-14

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Statistics on X 169 7 13 Mesoscopic Devices 170 7 14 Hall Conductance on Leaky Tori 170 7      Quantum Transport in Mesoscopic Systems David Sánchez, Michael Moskalets, 2021-01-06 Mesoscopic physics deals with systems larger than single atoms but small enough to retain their quantum properties The possibility to create and manipulate conductors of the nanometer scale has given birth to a set of phenomena that have revolutionized physics quantum Hall effects persistent currents weak localization Coulomb blockade etc This Special Issue tackles the latest developments in the field Contributors discuss time dependent transport quantum pumping nanoscale heat engines and motors molecular junctions electron electron correlations in confined systems quantum thermo electrics and current fluctuations The works included herein represent an up to date account of exciting research with a broad impact in both fundamental and applied topics

*Quantum versus Chaos* K. Nakamura, 1997-05-31 Quantum and chaos key concepts in contemporary science are incompatible by nature This volume presents an investigation into quantum transport in mesoscopic or nanoscale systems which are classically chaotic and shows the success and failure of quantal semiclassical and random matrix theories in dealing with questions emerging from the mesoscopic cosmos These traditional theories are critically analysed and this leads to a new direction To reconcile quantum with chaos and to restore genuine temporal chaos in quantum systems a time discrete variant of quantum dynamics is proposed Audience This book will be of interest to graduate students and researchers in physics chemistry and mathematics whose work involves fundamental questions of quantum mechanics in chaotic systems      **Quantum Phenomena in Mesoscopic Systems** B. Altshuler, A. Tagliacozzo, V. Tognetti, 2004-01-28

This book is a snapshot of the vision shared by outstanding scientists on the key theoretical and experimental issues in Mesoscopic Physics Quantum properties of electrons in solid state devices and transport in semiconducting and superconducting low dimensional systems are discussed as well as the basis of quantum computing entanglement noise decoherence and read out Each chapter collects the material presented at a Varenna School course of last year by leading experts in the field The reader gets a flavor how theorists and experimentalists are paving the way to the physical realization of solid state qubits the basic units of the new logic and memory elements for quantum processing He will be surprised in finding that mesoscopic solid state devices which were invented just yesterday think of the Single Electron Transistor or the Cooper Pair Box are currently used as charge sensing applications in the equipment of frontier research laboratories These devices contribute as probing systems to produce evidence on still unsettled questions in topics like the metal insulator transition in disordered two dimensional systems quantum Hall conductance in heterostructures or Kondo conductance in quantum dots      Quantum Transport in Mesoscopic Systems Pier A. Mello, Narendra Kumar, 2004 This text presents the statistical theory of wave scattering and quantum transport in complex chaotic and disordered systems

*Coherent Effects in Mesoscopic Quantum Systems* Eric Kessler, 2012      *Quantum Fluctuations In Mesoscopic And Macroscopic Systems - Proceedings Of The Adriatico Research Conference* H A Cerdeira, Ulrich Weiss, Francisco Guinea Lopez, 1991-05-24 Novel

phenomena in submicron semiconductor devices and small Josephson junctions emphasize the need to understand quantum mechanical coherence and tunneling in mesoscopic and macroscopic systems These proceedings review the recent experimental and theoretical progress and discuss new concepts techniques and results     *Quantum Chaos and Mesoscopic Systems* N. E. Hurt, 2014-01-15     *Transport and Thermodynamic Properties of Mesoscopic Quantum Systems* Andrew Germanovich Scherbakov, 1997     *Quantum Dissipation Theory and Applications in Mesoscopic Systems* Meng Luo, 2011

**Quantum Coherence in Mesoscopic Systems** B. Kramer, 1991-05-31 Proceedings of a NATO ASI held in Les Arcs France April 2 13 1990     **Thermodynamics of Mesoscopic Quantum Systems: from a Single Qubit to Light Harvesting Complexes** Jérôme Flakowski, 2016     *Mesoscopic Physics of Quantum Systems and Neural Networks* Matthias Thamm, 2023     *From Micro to Macro Quantum Systems* K. Kong Wan, 2006 Traditional quantum theory has a very rigid structure making it difficult to accommodate new properties emerging from novel systems This book presents a flexible and unified theory for physical systems from micro and macro quantum to classical This is achieved by incorporating superselection rules and maximal symmetric operators into the theory The resulting theory is applicable to classical microscopic quantum and non orthodox mixed quantum systems of which macroscopic quantum systems are examples A unified formalism also greatly facilitates the discussion of interactions between these systems A scheme of quantization by parts is introduced based on the mathematics of selfadjoint and maximal symmetric extensions of symmetric operators to describe point interactions The results are applied to treat superconducting quantum circuits in various configurations This book also discusses various topics of interest such as the asymptotic treatment of quantum state preparation and quantum measurement local observables and local values Schrödinger's cat states in superconducting systems and a path space formulation of quantum mechanics This self contained book is complete with a review of relevant geometric and operator theories for example vector fields and operators symmetric operators and their maximal symmetric extensions direct integrals of Hilbert spaces and operators     **Quantum Dissipation Theory and Applications to Quantum Transport and Quantum Measurement in Mesoscopic Systems** Ping Cui, 2006     **Quantum Theory of the Solid State** Joseph Callaway, 2013-10-22 This new edition presents a comprehensive up to date survey of the concepts and methods in contemporary condensed matter physics emphasizing topics that can be treated by quantum mechanical methods The book features tutorial discussions of a number of current research topics Also included are updated treatments of topics that have developed significantly within the past several years such as superconductivity magnetic impurities in metals methods for electronic structure calculations magnetic ordering in insulators and metals and linear response theory Advanced level graduate students and practicing condensed matter physicists will use the second edition of *Quantum Theory of the Solid State* as an important source of information on Renormalization group theory Integer and fractional quantum Hall effect Transport in mesoscopic systems and Numerical methods in many body theory     **Quantum Dissipative Systems** Ulrich

Weiss,1993-03-27 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

**Quantum Cybernetics** Gerhard Grössing,2000-06-22 Written for non specialists this book discusses the apparent conflict between relativity and quantum mechanics The author proposes a resolution based on a causal interpretation introduced by Louis deBroglie and elaborated by David Bohm He shows that a medium or aether may be introduced in a manner consistent with both relativity and quantum theory and which allows the two theories to be unified via the identification of circularly causal processes at their core While several crucial experiments are discussed in detail the mathematics is kept simple making the discussion accessible to a wide audience

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