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**Fabio Benatti, Mark Fannes, Roberto
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Semiclassical Theory of Mesoscopic Quantum Systems Klaus Richter, 2014-01-15 **Semiclassical Theory of Mesoscopic Quantum Systems** Klaus Richter, 1999-11-22 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

Nonlinear Dynamics of Nanosystems Günter Radons, Benno Rumpf, Heinz Georg Schuster, 2010-01-12 A discussion of the fundamental changes that occur when dynamical systems from the fields of nonlinear optics solids hydrodynamics and biophysics are scaled down to nanosize The authors are leading scientists in the field and each of their contributions provides a broader introduction to the specific area of research In so doing they include both the experimental and theoretical point of view focusing especially on the effects on the nonlinear dynamical behavior of scaling stochasticity and quantum mechanics For everybody working on the synthesis and integration of nanoscopic devices who sooner or later will have to learn how to deal with nonlinear effects

Complex Phenomena in Nanoscale Systems Giulio Casati, Davron Matrasulov, 2009-08-10 Nanoscale physics has become one of the rapidly developing areas of contemporary physics because of its direct relevance to newly emerging area nanotechnologies Nanoscale devices and quantum functional materials are usually constructed based on the results of fundamental studies on nanoscale physics Therefore studying physical phenomena in nanosized systems is of importance for progressive development of nanotechnologies In this context study of complex phenomena in such systems and using them for controlling purposes is of great practical importance Namely such studies are brought together in this book which contains 27 papers on various aspects of nanoscale physics and nonlinear dynamics

Spinning Particles - Semiclassics and Spectral Statistics Stefan Keppeler, 2003-09-11 The main theme of this book is semiclassical methods for systems with spin in particular methods involving trace formulae and torus quantisation and their applications in the theory of quantum chaos e g the characterisation of spectral correlations The theoretical tools developed here not only have immediate applications in the theory of quantum chaos which is the second focus of the book but also in atomic and mesoscopic physics Thus the intuitive understanding of semiclassical spin dynamics will also be helpful in emerging subjects like spintronics and quantum computation

Semiconductor Cavity Quantum Electrodynamics Y. Yamamoto, F. Tassone, H. Cao, 2003-07-01 This monograph is the first to give a comprehensive account of the theory of semiconductor cavity quantum electrodynamics for such systems in the weak coupling and strong coupling regimes It presents the important concepts together with relevant recent experimental results

Quantum Chaos and Quantum Dots Katsuhiko Nakamura, Takahisa Harayama, 2004 Dynamics of billiard balls and their role in physics have

received wide attention Billiards can nowadays be created as quantum dots in the microscopic world enabling one to envisage the so called quantum chaos i.e quantum manifestation of chaos of billiard balls In fact owing to recent progress in advanced technology nanoscale quantum dots such as chaotic stadium and antidot lattices analogous to the Sinai Billiard can be fabricated at the interface of semiconductor heterojunctions This book begins its exploration of the effect of chaotic electron dynamics on ballistic quantum transport in quantum dots with a puzzling experiment on resistance fluctuations for stadium and circle dots Throughout the text major attention is paid to the semiclassical theory which makes it possible to interpret quantum phenomena in the language of the classical world Chapters one to four are concerned with the elementary statistical methods curvature Lyapunov exponent Kolmogorov Sinai entropy and escape rate which are needed for a semiclassical description of transport in quantum dots Chapters five to ten discuss the topical subjects in the field including the ballistic weak localization Altshuler Aronov Spivak oscillation partial time reversal symmetry persistent current Arnold diffusion and Coulomb blockade

New Directions in Quantum Chaos Società italiana di fisica, 2000 The rapid progress of the research field of quantum chaos and its applications called for a book that keeps students abreast of the new developments and at the same time provides a solid basis in subjects which form the canon of the field This book discusses the following topics Spectral statistics and their semiclassical interpretation in terms of the Gutzwiller trace formula Quantum chaos and its applications in mesoscopic physics Spectral statistics and conductance fluctuations and Quantum chaos in systems with many degrees of freedom The book connects and continues past and present achievements and prepares the ground for a future full of intriguing and important developments

Quantum Chaos Y2k, Proceedings Of Nobel Symposium 116 Sven Aberg, Karl-fredrik Berggren, 2001-10-09 Quantum chaos is becoming a very wide field that ranges from experiments to theoretical physics and purely mathematical issues In view of this grand span Nobel Symposium 116 focused on experiments and theory and attempted to encourage interplay between them There was emphasis on the interdisciplinary character of the subject involving a broad range of subjects in physics including condensed matter physics nuclear physics atomic physics and elementary particle physics The physics involved in quantum chaos has much in common with acoustics microwaves optics etc and therefore the symposium also covered aspects of wave chaos in this broader sense The program was structured according to the following areas manifestations of classical chaos in quantum systems transport phenomena quantal spectra in terms of periodic orbits semiclassical and random matrix approaches quantum chaos in interacting systems chaos and tunneling wave dynamic chaos This important book constitutes the proceedings of the symposium

Gregory S. Ezra Srihari Keshavamurthy, Stephen Wiggins, 2015-06-01 In this Festschrift dedicated to the 60th birthday of Gregory S Ezra selected researchers in theoretical chemistry present research highlights on major developments in the field Originally published in the journal Theoretical Chemistry Accounts these outstanding contributions are now available in a hardcover print format as well as a special electronic edition This volume provides valuable content for all

researchers in theoretical chemistry and will especially benefit those research groups and libraries with limited access to the journal

Quantum Foundations And Open Quantum Systems: Lecture Notes Of The Advanced School Theo M

Nieuwenhuizen, Claudia Pombo, Claudio Furtado, Andrei Yu Khrennikov, Inacio A Pedrosa, Vaclav Spicka, 2014-10-03 The Advanced School on Quantum Foundations and Open Quantum Systems was an exceptional combination of lectures These comprise lectures in standard physics and investigations on the foundations of quantum physics On the one hand it included lectures on quantum information quantum open systems quantum transport and quantum solid state On the other hand it included lectures on quantum measurement models for elementary particles sub quantum structures and aspects on the philosophy and principles of quantum physics The special program of this school offered a broad outlook on the current and near future fundamental research in theoretical physics The lectures are at the level of PhD students

Dissipative Quantum Chaos and Decoherence Daniel Braun, 2003-07-01 Dissipative Quantum Chaos and Decoherence provides an overview of the state of the art of research in this exciting field The main emphasis is on the development of a semiclassical formalism that allows one to incorporate the effect of dissipation and decoherence in a precise yet tractable way into the quantum mechanics of classically chaotic systems The formalism is employed to reveal how the spectrum of the quantum mechanical propagator of a density matrix is determined by the spectrum of the corresponding classical propagator of phase space density Simple quantum classical hybrid formulae for experimentally relevant correlation functions and time dependent expectation values of observables are derived The problem of decoherence is treated in detail and highly unexpected cases of very slow decoherence are revealed with important consequences for the long debated realizability of Schrödinger cat states as well as for the construction of quantum computers

Dynamics and Characterization of Composite Quantum Systems Manuel Gessner, 2016-10-03 This thesis sheds new light on the fascinating properties of composite quantum systems Quantum systems of different sizes ranging from small bipartite systems to large many body ensembles can be studied with the help of modern quantum optical experiments These experiments make it possible to observe a broad variety of striking features including nonclassical correlations complex dynamics and quantum phase transitions By adopting the complementary perspectives of quantum information theory quantum chemistry and many body theory the thesis develops new methods for the efficient characterization and description of interacting composite quantum systems

Mesoscopic Quantum Physics Université Joseph Fourier, 1995 These proceedings focus on aspects of disorder where quantum interferences are present All recent developments in the field are covered and the book is organized with particular attention to pedagogy It includes both a description of the physical phenomena and a review of methods

Heavy Quark Effective Theory Andrey G. Grozin, 2004-04-07 This up to date review also serves as an introduction to Heavy Quark Effective Theory HQET a new approach to heavy quark physics problems in Quantum Chromodynamics QCD The book also contains a detailed discussion of the methods of calculation used in HQET along with numerous illustrations

Non-Linear Dynamics

and Fundamental Interactions Faqir Khanna, Davron Matrasulov, 2006-06-26 This volume contains the papers presented at the NATO Advanced Research Institute on Non Linear Dynamics and Fundamental Interactions held in Tashkent Uzbekistan from Oct 10 16 2004 The main objective of the Workshop was to bring together people working in areas of Fundamental physics relating to Quantum Field Theory Finite Temperature Field theory and their applications to problems in particle physics phase transitions and overlap regions with the areas of Quantum Chaos The other important area is related to aspects of Non Linear Dynamics which has been considered with the topic of chaology The applications of such techniques are to mesoscopic systems nanostructures quantum information particle physics and cosmology All this forms a very rich area to review critically and then find aspects that still need careful consideration with possible new developments to find appropriate solutions There were 29 one hour talks and a total of seven half hour talks mostly by the students In addition two round table discussions were organised to bring the important topics that still need careful consideration One was devoted to questions and unsolved problems in Chaos in particular Quantum Chaos The other round table discussion considered the outstanding problems in Fundamental Interactions There were extensive discussions during the two hours devoted to each area Applications and development of new and diverse techniques was the real focus of these discussions The conference was ably organised by the local committee consisting of D U

Advances in Solid State Physics Bernhard Kramer, 2003-07-01 The 2001 Spring Meeting of the 65th Deutsche Physikalische Gesellschaft was held together with the 65 Physikertagung in Hamburg during the pe riod March 26 30 2001 With more than 3500 conference attendees a record has again been achieved after several years of stabilisation in participation This proves the continuing and now even increasing attraction of solid state physics especially for young colleagues who often discuss for the first time their scientific results in public at this meeting More than 2600 scientific pa pers were presented orally as well as posters among them about 120 invited lectures from Germany and from abroad This Volume 41 of *Advances in Solid State Physics* contains the written versions of half of the latter We nevertheless hope that the book truly reflects the current state of the field Amazingly enough the majority of the papers as well as the discussions at the meeting concentrated on the nanostructured solid state This re flects the currently extremely intensive quest for developing the electronic and magnetic device generations of the future which stimulates science be sides the challenge of the unknown as has always been the case since the very beginning of Solid State Physics about 100 years ago

Spatio-Temporal Dynamics and Quantum Fluctuations in Semiconductor Lasers Edeltraud Gehrig, Ortwin Hess, 2003-09-22 Presents fundamental theories and simulations of the spatio temporal dynamics and quantum fluctuations in semiconductor lasers The dynamic interplay of light and matter is theoretically described by taking into account microscopic carrier dynamics spatially dependent light field propagation and the influence of spontaneous emission and noise

Quantum Information, Computation and Cryptography Fabio Benatti, Mark Fannes, Roberto Floreanini, Dimitri Petritis, 2010-09-21 This multi authored textbook addresses graduate students with a background in physics mathematics or

computer science No research experience is necessary Consequently rather than comprehensively reviewing the vast body of knowledge and literature gathered in the past twenty years this book concentrates on a number of carefully selected aspects of quantum information theory and technology Given the highly interdisciplinary nature of the subject the multi authored approach brings together different points of view from various renowned experts providing a coherent picture of the subject matter The book consists of ten chapters and includes examples problems and exercises The first five present the mathematical tools required for a full comprehension of various aspects of quantum mechanics classical information and coding theory Chapter 6 deals with the manipulation and transmission of information in the quantum realm Chapters 7 and 8 discuss experimental implementations of quantum information ideas using photons and atoms Finally chapters 9 and 10 address ground breaking applications in cryptography and computation

Applied Asymptotic Expansions in Momenta and Masses Vladimir A. Smirnov, 2003-07-01 The sturgeon they sent was second grade fresh said the barman Really what nonsense Why nonsense Second grade fresh that s what I call nonsense There s only one degree of freshness the first and it s the last M A Bulgakov The Master and Margarita The goal of this book is to describe in detail how Feynman integrals can be expanded in suitable parameters when various momenta or masses are small or large In a narrow sense this problem is connected with practical calculations In a situation where a given Feynman integral depends on parameters of very different scales a natural idea is to replace it by a sufficiently large number of terms of an expansion of it in ratios of small and large scales It will be explained how this problem of expansion can be systematically solved by formulating universal prescriptions that express terms of the expansion by using the original Feynman integral with its integrand expanded into a Taylor series in appropriate momenta and masses It turns out that knowledge of the structure of the asymptotic expansion at the diagrammatic level is a key point in understanding how to perform expansions at the operator level There are various examples of these expansions the operator product expansion the large mass expansion Heavy Quark Effective Theory Non Relativistic QCD etc Each of them serves as a realization of the factorization of contributions of different scales

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