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SPRINGER TRACTS
IN MODERN PHYSICS

Stefan Keppeler

Spinning Particles – Semiclassics and Spectral Statistics



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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 Semiclassical Approach to Mesoscopic Systems

Daniel Waltner, 2012-01-05 This volume describes mesoscopic systems with classically chaotic dynamics using semiclassical methods which combine elements of classical dynamics and quantum interference effects Experiments and numerical studies show that Random Matrix Theory RMT explains physical properties of these systems well This was conjectured more than 25 years ago by Bohigas Giannoni and Schmit for the spectral properties Since then it has been a challenge to understand this connection analytically The author offers his readers a clearly written and up to date treatment of the topics covered He extends previous semiclassical approaches that treated spectral and conductance properties He shows that RMT results can in general only be obtained semiclassically when taking into account classical configurations not considered previously for example those containing multiply traversed periodic orbits Furthermore semiclassics is capable of describing effects beyond RMT In this context he studies the effect of a non zero Ehrenfest time which is the minimal time needed for an initially spatially localized wave packet to show interference He derives its signature on several quantities characterizing mesoscopic systems e.g. dc and ac conductance dc conductance variance n pair correlation functions of scattering matrices and the gap in the density of states of Andreev billiards **Compton Scattering** Frank Wissmann, 2003-12-03 A comprehensive

summary of experiments on Compton scattering from the proton and neutron performed at the electron accelerator MAMI The experiments cover a photon energy range from 30 MeV to 500 MeV The reader is introduced to the theoretical concepts of Compton scattering followed by a description of the experiments on the proton their analysis and results *Analysis on Graphs and Its Applications* Pavel Exner, 2008 This book addresses a new interdisciplinary area emerging on the border between various areas of mathematics physics chemistry nanotechnology and computer science The focus here is on problems and techniques related to graphs quantum graphs and fractals that parallel those from differential equations differential geometry or geometric analysis Also included are such diverse topics as number theory geometric group theory waveguide theory quantum chaos quantum wires systems carbon nano structures metal insulator transition computer vision and communication networks This volume contains a unique collection of expert reviews on the main directions in analysis on graphs e.g. on discrete geometric analysis zeta functions on graphs recently emerging connections between the geometric group theory and fractals quantum graphs quantum chaos on graphs modeling waveguide systems and modeling quantum

graph systems with waveguides control theory on graphs as well as research articles

Quanten-Abbildungen auf dem Zwei-Torus mit und ohne Spin 1/2 Grischha Haag, 2002

Quantum Tunneling in Complex Systems Joachim Ankerhold, 2007-02-15 In the last two decades remarkable progress has been made in understanding and describing tunneling processes in complex systems in terms of classical trajectories This book introduces recent concepts and achievements with particular emphasis on a dynamical formulation and relations to specific systems in mesoscopic molecular and atomic physics Advanced instanton techniques e g for decay rates and tunnel splittings are discussed in the first part The second part covers current developments for wave packet tunneling in real time and the third part describes thermodynamics and dynamical approaches for barrier transmission in statistical particularly dissipative systems

Optical Coherence and Quantum Optics Leonard Mandel, Emil Wolf, 1995-09-29 This book presents a systematic account of optical coherence theory within the framework of classical optics as applied to such topics as radiation from sources of different states of coherence foundations of radiometry effects of source coherence on the spectra of radiated fields coherence theory of laser modes and scattering of partially coherent light by random media

Quantum Physics Florian Scheck, 2007-04-17 Scheck s Quantum Physics presents a comprehensive introductory treatment ideally suited for a two semester course Part One covers the basic principles and prime applications of quantum mechanics from the uncertainty relations to many body systems Part Two introduces to relativistic quantum field theory and ranges from symmetries in quantum physics to electroweak interactions Numerous worked out examples as well as exercises with solutions or hints enables the book s use as an accompanying text for courses and also for independent study For both parts the necessary mathematical framework is treated in adequate form and detail The book ends with appendices covering mathematical fundamentals and enrichment topics plus selected biographical notes on pioneers of quantum mechanics and quantum field theory

Path Integrals in Quantum Mechanics, Statistics, Polymer Physics, and Financial Markets Hagen Kleinert, 2009 This is the fifth expanded edition of the comprehensive textbook published in 1990 on the theory and applications of path integrals It is the first book to explicitly solve path integrals of a wide variety of nontrivial quantum mechanical systems in particular the hydrogen atom The solutions have been made possible by two major advances The first is a new euclidean path integral formula which increases the restricted range of applicability of Feynman s time sliced formula to include singular attractive $1/r$ and $1/r^2$ potentials The second is a new nonholonomic mapping principle carrying physical laws in flat spacetime to spacetimes with curvature and torsion which leads to time sliced path integrals that are manifestly invariant under coordinate transformations In addition to the time sliced definition the author gives a perturbative coordinate independent definition of path integrals which makes them invariant under coordinate transformations A consistent implementation of this property leads to an extension of the theory of generalized functions by defining uniquely products of distributions The powerful Feynman-Kleinert variational approach is explained and developed systematically into a variational perturbation theory which in contrast to

ordinary perturbation theory produces convergent results The convergence is uniform from weak to strong couplings opening a way to precise evaluations of analytically unsolvable path integrals in the strong coupling regime where they describe critical phenomena Tunneling processes are treated in detail with applications to the lifetimes of supercurrents the stability of metastable thermodynamic phases and the large order behavior of perturbation expansions A variational treatment extends the range of validity to small barriers A corresponding extension of the large order perturbation theory now also applies to small orders Special attention is devoted to path integrals with topological restrictions needed to understand the statistical properties of elementary particles and the entanglement phenomena in polymer physics and biophysics The Chern-Simons theory of particles with fractional statistics anyons is introduced and applied to explain the fractional quantum Hall effect The relevance of path integrals to financial markets is discussed and improvements of the famous Black-Scholes formula for option prices are developed which account for the fact recently experienced in the world markets that large fluctuations occur much more frequently than in Gaussian distributions

Path Integrals In Quantum Mechanics, Statistics, Polymer Physics, And Financial Markets (4th Edition) Hagen Kleinert, 2006-07-19 This is the fourth expanded edition of the comprehensive textbook published in 1990 on the theory and applications of path integrals It is the first book to explicitly solve path integrals of a wide variety of nontrivial quantum mechanical systems in particular the hydrogen atom The solutions have become possible by two major advances The first is a new euclidean path integral formula which increases the restricted range of applicability of Feynman's famous formula to include singular attractive $1/r$ and $1/r^2$ potentials The second is a simple quantum equivalence principle governing the transformation of euclidean path integrals to spaces with curvature and torsion which leads to time sliced path integrals that are manifestly invariant under coordinate transformations In addition to the time sliced definition the author gives a perturbative definition of path integrals which makes them invariant under coordinate transformations A consistent implementation of this property leads to an extension of the theory of generalized functions by defining uniquely integrals over products of distributions The powerful Feynman-Kleinert variational approach is explained and developed systematically into a variational perturbation theory which in contrast to ordinary perturbation theory produces convergent expansions The convergence is uniform from weak to strong couplings opening a way to precise approximate evaluations of analytically unsolvable path integrals Tunneling processes are treated in detail The results are used to determine the lifetime of supercurrents the stability of metastable thermodynamic phases and the large order behavior of perturbation expansions A new variational treatment extends the range of validity of previous tunneling theories from large to small barriers A corresponding extension of large order perturbation theory also applies now to small orders Special attention is devoted to path integrals with topological restrictions These are relevant to the understanding of the statistical properties of elementary particles and the entanglement phenomena in polymer physics and biophysics The Chern-Simons theory of particles with fractional statistics anyons is introduced and applied to explain the

fractional quantum Hall effect The relevance of path integrals to financial markets is discussed and improvements of the famous Black Scholes formula for option prices are given which account for the fact that large market fluctuations occur much more frequently than in the commonly used Gaussian distributions The author's other book on Critical Properties of 4 Theories gives a thorough introduction to the field of critical phenomena and develops new powerful resummation techniques for the extraction of physical results from the divergent perturbation expansions **Journal of Physics**, 1994 Journal of Physics A, 2000 Focuses on fundamental mathematical and computational methods underpinning physics Relevant to statistical physics chaotic and complex systems classical and quantum mechanics classical and quantum integrable systems and classical and quantum field theory **Quantum Mechanics** Robert J. Russell, Specola Vaticana, Center for Theology and the Natural Sciences, 2001 Quantum Mechanics a collection of fifteen essays explores the creative interaction among quantum physics philosophy and theology This fine collection presents the results of the fifth international research conference co sponsored by the Vatican Observatory Rome and the Center for Theology and the Natural Sciences Berkeley The overarching goal of these conferences is to support the engagement of constructive theology with the natural sciences and to investigate the philosophical and theological elements in ongoing theoretical research in the natural sciences In the first section of this collection contributors examine scientific and historical context Section two features essays covering a wide range of philosophical interpretations of quantum mechanics The final set of essays explores the theological implications of quantum theory Abner Shimony Raymond Y Chiao Michael Berry Ernan McMullin William R Stoeger S J James T Cushing Jeremy Butterfield Michael Redhead Chris Clarke John Polkinghorne Michael Heller Philip Clayton Thomas F Tracy George F R Ellis and Robert John Russell all contributed essays to this volume *Physics Briefs*, 1993 **Nuclear Science Abstracts**, 1976-05 **Principles Of Physics: From Quantum Field Theory To Classical Mechanics (Second Edition)** Jun Ni, 2017-06-28 This book starts from a set of common basic principles to establish the basic formalisms of all disciplines of fundamental physics including quantum field theory quantum mechanics statistical mechanics thermodynamics general relativity electromagnetism and classical mechanics Instead of the traditional pedagogic way the author arranges the subjects and formalisms in a logical order i.e. all the formulas are derived from the formulas before them The formalisms are also kept self contained Most mathematical tools are given in the appendices Although this book covers all the disciplines of fundamental physics it contains only a single volume because the contents are kept concise and treated as an integrated entity which is consistent with the motto that simplicity is beauty unification is beauty and thus physics is beauty This can be used as an advanced textbook for graduate students It is also suitable for physicists who wish to have an overview of fundamental physics Emerging Applications of Number Theory Dennis A. Hejhal, Joel Friedman, Martin C. Gutzwiller, Andrew M. Odlyzko, 2012-12-06 Most people tend to view number theory as the very paradigm of pure mathematics With the advent of computers however number theory has been finding an increasing number of applications in

practical settings such as in cryptography random number generation coding theory and even concert hall acoustics Yet other applications are still emerging providing number theorists with some major new areas of opportunity The 1996 IMA summer program on Emerging Applications of Number Theory was aimed at stimulating further work with some of these newest and most attractive applications Concentration was on number theory's recent links with a wide phenomena in quantum mechanics more specifically quantum chaos and b graph theory especially expander graphs and related spectral theory This volume contains the contributed papers from that meeting and will be of interest to anyone intrigued by novel applications of modern number theoretical techniques *Quantum Physics* Vladimir Zelevinsky, 2010-12-28 This two volume set can be naturally divided into two semester courses and contains a full modern graduate course in quantum physics The idea is to teach graduate students how to practically use quantum physics and theory presenting the fundamental knowledge and gradually moving on to applications including atomic nuclear and solid state physics as well as modern subfields such as quantum chaos and quantum entanglement The book starts with basic quantum problems which do not require full quantum formalism but allow the student to gain the necessary experience and elements of quantum thinking Only then does the fundamental Schrodinger equation appear The author has included topics that are not usually covered in standard textbooks and has written the book in such a way that every topic contains varying layers of difficulty so that the instructor can decide where to stop Although supplementary sources are not required Further reading is given for each chapter including references to scientific journals and publications and a glossary is also provided Problems and solutions are integrated throughout the text Energy Research Abstracts , 1993 **Mathematical Reviews** , 2003

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