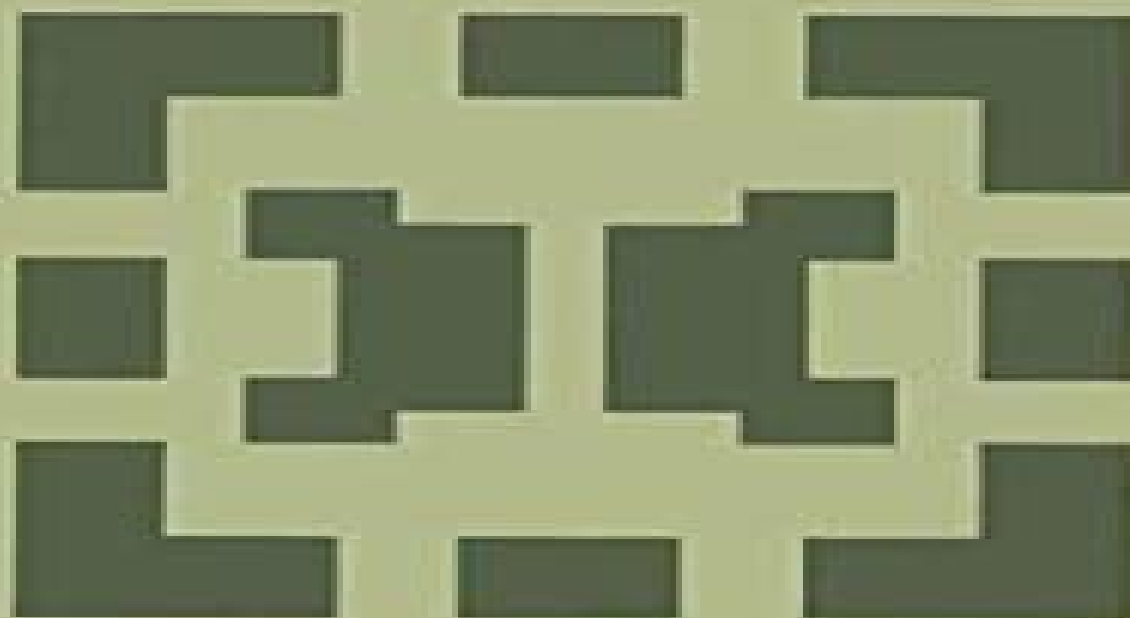


Mathematics and Its Applications

Norman E. Hurt

# Quantum Chaos and Mesoscopic Systems

Mathematical Methods in the  
Quantum Signatures of Chaos



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# Quantum Chaos And Mesoscopic Systems mathematical Methods In The Quantum Signatures Of Chaos

**N.E. Hurt**

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Hurt,1997-02-28 4 2 Variance of Quantum Matrix Elements 125 4 3 Berry s Trick and the Hyperbolic Case 126 4 4 Nonhyperbolic Case 128 4 5 Random Matrix Theory 128 4 6 Baker s Map and Other Systems 129 4 7 Appendix Baker s Map 129 5 Error Terms 133 5 1 Introduction 133 5 2 The Riemann Zeta Function in Periodic Orbit Theory 135 5 3 Form Factor for Primes 137 5 4 Error Terms in Periodic Orbit Theory Co compact Case 138 5 5 Binary Quadratic Forms as a Model 139 6 Co Finite Model for Quantum Chaology 141 6 1 Introduction 141 6 2 Co finite Models 141 6 3 Geodesic Triangle Spaces 144 6 4 L Functions 145 6 5 Zelditch s Prime Geodesic Theorem 146 6 6 Zelditch s Pseudo Differential Operators 147 6 7 Weyl s Law Generalized 148 6 8 Equidistribution Theory 150 7 Landau Levels and L Functions 153 7 1 Introduction 153 7 2 Landau Model Mechanics on the Plane and Sphere 153 7 3 Landau Model Mechanics on the Half Plane 155 7 4 Selberg s Spectral Theorem 157 7 5 Pseudo Billiards 158 7 6 Landau Levels on a Compact Riemann Surface 159 7 7 Automorphic Forms 160 7 8 Maass Selberg Trace Formula 162 7 9 Degeneracy by Selberg 163 7 10 Hecke Operators 163 7 11 Selberg Trace Formula for Hecke Operators 167 7 12 Eigenvalue Statistics on X 169 7 13 Mesoscopic Devices 170 7 14 Hall Conductance on Leaky Tori 170 7      **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

*Feynman Integral and Random Dynamics in Quantum Physics* Z. Haba, 2013-03-11 The Feynman integral is considered as an intuitive representation of quantum mechanics showing the complex quantum phenomena in a language comprehensible at a classical level It suggests that the quantum transition amplitude arises from classical mechanics by an average over various interfering paths The classical picture suggested by the Feynman integral may be illusory By most physicists the path integral is usually treated as a convenient formal mathematical tool for a quick derivation of useful approximations in quantum mechanics Results obtained in the formalism of Feynman integrals receive a mathematical justification by means of other usually much harder methods In such a case the rigour is achieved at the cost of losing the intuitive classical insight The aim of this book is to formulate a mathematical theory of the Feynman integral literally in the way it was expressed by Feynman at the cost of complexifying the configuration space In such a case the Feynman integral can be expressed by a probability measure The equations of quantum mechanics can be formulated as equations of random classical mechanics on a complex configuration space The opportunity of computer simulations shows an immediate advantage of such a formulation A mathematical formulation of the Feynman integral should not be considered solely as an academic question of mathematical rigour in theoretical physics

**Differential Operators and Related Topics** V.M. Adamyan, Israel Gohberg, Myroslav L. Gorbachuk, Valentina I. Gorbachuka, Marinus A. Kaashoek, G. Popov, H. Langer, 2012-12-06 The present book is the first of the two volume Proceedings of the Mark Krein International Conference on Operator Theory and Applications This conference which was dedicated to the 90th Anniversary of the prominent mathematician Mark Krein was held in Odessa Ukraine from 18-22 August 1997 The conference focused on the main ideas, methods, results and achievements of M. G. Krein This first volume is devoted to the theory of differential operators and related topics It opens with a description of the conference, biographical material and a number of survey papers about the work of M. G. Krein The main part of the book consists of original research papers presenting the state of the art in the area of differential operators The second volume of these proceedings entitled Operator Theory and Related Topics concerns the other aspects of the conference The two volumes will be of interest to a wide range of readership in pure and applied mathematics, physics and engineering sciences Table of Contents Preface v Table of Contents VII Picture of M. G. Krein XI About the Mark Krein International Conference Mark Grigorevich Krein A short biography 5 I. Gohberg The Seminar on Ship Hydrodynamics Organized by M. G. Krein 9 v G. Sizov Review Papers The Works

of M G Krein on Eigenfunction Expansion for Selfadjoint Operators and their Applications and Development 21 Yu M Berezansky M G Krein and the Extension Theory of Symmetric Operators      **Differential Operators and Related Topics**

V. M. Adamian, 2000 The present book is the first of the two volume Proceedings of the Mark Krein International Conference on Operator Theory and Applications This conference which was dedicated to the 90th Anniversary of the prominent mathematician Mark Krein was held in Odessa Ukraine from 18-22 August 1997 The conference focused on the main ideas, methods, results and achievements of M G Krein This first volume is devoted to the theory of differential operators and related topics It opens with a description of the conference, biographical material and a number of survey papers about the work of M G Krein The main part of the book consists of original research papers presenting the state of the art in the area of differential operators The second volume of these proceedings entitled Operator Theory and related Topics concerns the other aspects of the conference The two volumes will be of interest to a wide range of readership in pure and applied mathematics, physics and engineering sciences Table of Contents Preface v Table of Contents VII Picture of M G Krein XI About the Mark Krein International Conference Mark Grigorevich Krein A short biography 5 I Gohberg The Seminar on Ship Hydrodynamics Organized by M G Krein 9 v G Sizov Review Papers The Works of M G Krein on Eigenfunction Expansion for Selfadjoint Operators      Optimal Filtering V.N. Fomin, 2012-12-06 This book is devoted to an investigation of some important problems of modern filtering theory concerned with systems of any nature being able to perceive, store and process information and apply it for control and regulation The above quotation is taken from the preface to 27 Despite the fact that filtering theory is largely worked out and its major issues such as the Wiener-Kolmogorov theory of optimal filtering of stationary processes and Kalman-Bucy recursive filtering theory have become classical a development of the theory is far from complete A great deal of recent activity in this area is observed researchers are trying consistently to generalize famous results, extend them to more broad classes of processes, realize and justify more simple procedures for processing measurement data in order to obtain more efficient filtering algorithms As to nonlinear filtering it remains much as fragmentary Here much progress has been made by R L Stratonovich and his successors in the area of filtering of Markov processes In this volume an effort is made to advance in certain of these issues The monograph has evolved over many years, coming of age by stages First it was an impressive job of gathering together the bulk of the important contributions to estimation theory, an understanding and modernization of some of its results and methods with the intention of applying them to recursive filtering problems      **Many-Particle Dynamics and Kinetic Equations** C. Cercignani, U.I. Gerasimenko, D.Y. Petrina, 2012-12-06 As our title suggests there are two aspects in the subject of this book The first is the mathematical investigation of the dynamics of infinite systems of interacting particles and the description of the time evolution of their states The second is the rigorous derivation of kinetic equations starting from the results of the aforementioned investigation

As is well known statistical mechanics started in the last century with some papers written by Maxwell and Boltzmann. Although some of their statements seemed statistically obvious we must prove that they do not contradict what mechanics predicts. In some cases in particular for equilibrium states it turns out that mechanics easily provides the required justification. However things are not so easy if we take a step forward and consider a gas is not in equilibrium as is e.g. the case for air around a flying vehicle. Questions of this kind have been asked since the dawn of the kinetic theory of gases especially when certain results appeared to lead to paradoxical conclusions. Today this matter is rather well understood and a rigorous kinetic theory is emerging. The importance of these developments stems not only from the need of providing a careful foundation of such a basic physical theory but also to exhibit a prototype of a mathematical construct central to the theory of non equilibrium phenomena of macroscopic size.

*Analytic-Bilinear Approach to Integrable Hierarchies* L.V. Bogdanov, 2012-12-06. The subject of this book is the hierarchies of integrable equations connected with the one component and multi component loop groups. There are many publications on this subject and it is rather well defined. Thus the author would like to explain why he has taken the risk of revisiting the subject. The Sato Grassmannian approach and other approaches standard in this context reveal deep mathematical structures in the base of the integrable hierarchies. These approaches concentrate mostly on the algebraic picture and they use a language suitable for applications to quantum field theory. Another well known approach the dressing method developed by S.V. Manakov and V.E. Zakharov is oriented mostly to particular systems and exact classes of their solutions. There is more emphasis on analytic properties and the technique is connected with standard complex analysis. The language of the dressing method is suitable for applications to integrable nonlinear PDEs, integrable nonlinear discrete equations and as recently discovered for the applications of integrable systems to continuous and discrete geometry. The primary motivation of the author was to formalize the approach to integrable hierarchies that was developed in the context of the dressing method preserving the analytic structures characteristic for this method but omitting the peculiarities of the constructive scheme. And it was desirable to find a start.

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 period 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 papers 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 reflects the currently extremely intensive quest for developing the electronic and magnetic

device generations of the future which stimulates science beside the challenge of the unknown as has always been the case since the very beginning of Solid State Physics about 100 years ago      **American Book Publishing Record** ,1997

*International Books in Print* ,1986      **Cumulative Book Index** ,1998 A world list of books in the English language

Statistical and Dynamical Aspects of Mesoscopic Systems D. Reguera,G. Platero,L.L. Bonilla,J.M. Rubi,2008-01-11

Initially a subfield of solid state physics the study of mesoscopic systems has evolved over the years into a vast field of research in its own right Keeping track its rapid progress this book provides a broad survey of the latest developments in the field The focus is on statistics and dynamics of mesoscopic systems with special emphasis on topics like quantum chaos localization noise and fluctuations mesoscopic optics and quantum transport in nanostructures Written with nonspecialists in mind this book will also be useful to graduate students wishing to familiarize themselves with this field of research      **The**

**British National Bibliography** Arthur James Wells,1998      Handbook of Applications of Chaos Theory Christos H.

Skiadas,Charilaos Skiadas,2017-12-19 In addition to explaining and modeling unexplored phenomena in nature and society chaos uses vital parts of nonlinear dynamical systems theory and established chaotic theory to open new frontiers and fields of study Handbook of Applications of Chaos Theory covers the main parts of chaos theory along with various applications to diverse areas Expert contributors from around the world show how chaos theory is used to model unexplored cases and stimulate new applications Accessible to scientists engineers and practitioners in a variety of fields the book discusses the intermittency route to chaos evolutionary dynamics and deterministic chaos and the transition to phase synchronization chaos It presents important contributions on strange attractors self exciting and hidden attractors stability theory Lyapunov exponents and chaotic analysis It explores the state of the art of chaos in plasma physics plasma harmonics and overtone coupling It also describes flows and turbulence chaotic interference versus decoherence and an application of microwave networks to the simulation of quantum graphs The book proceeds to give a detailed presentation of the chaotic rogue and noisy optical dissipative solitons parhelic like circle and chaotic light scattering and interesting forms of the hyperbolic prism the Poincaré disc and foams It also covers numerous application areas from the analysis of blood pressure data and clinical digital pathology to chaotic pattern recognition to economics to musical arts and research      **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      **Mathematical Reviews** ,2004

**Whitaker's Books in Print** ,1998      *Dynamics of Complex Quantum Systems* Vladimir M. Akulin,2013-12-30 This book gathers together a range of similar problems that can be encountered in different fields of modern quantum physics and that

have common features with regard to multilevel quantum systems The main motivation was to examine from a uniform standpoint various models and approaches that have been developed in atomic molecular condensed matter chemical laser and nuclear physics in various contexts The book should help senior level undergraduate graduate students and researchers putting particular problems in these fields into a broader scientific context and thereby taking advantage of well established techniques used in adjacent fields This second edition has been expanded to include substantial new material e g new sections on Dynamic Localization and on Euclidean Random Matrices and new chapters on Entanglement Open Quantum Systems and Coherence Protection It is based on the author s lectures at the Moscow Institute of Physics and Technology at the CNRS Aim Cotton Laboratory and on other courses he has given over the last two decades



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### **Introduction**

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