Grundlehren der mathematischen Wissenschaften 297
A Series of Comprehensive Studies in Mathematics

L. Pastur A. Figotin

Spectra of Random and Almost-Periodic Operators

Springer-Verlag

Spectra Of Random And Almost Periodic Operators

Yulia E. Karpeshina

Spectra Of Random And Almost Periodic Operators:

Spectra of Random and Almost-Periodic Operators Leonid Pastur,Alexander Figotin,1992 In the last fifteen years the spectral properties of the Schrodinger equation and of other differential and finite difference operators with random and almost periodic coefficients have attracted considerable and ever increasing interest This is so not only because of the subject s position at the in tersection of operator spectral theory probability theory and mathematical physics but also because of its importance to theoretical physics and par ticularly to the theory of disordered condensed systems It was the requirements of this theory that motivated the initial study of differential operators with random coefficients in the fifties and sixties by the physicists Anderson 1 Lifshitz and Mott and today the same theory still exerts a strong influence on the discipline into which this study has evolved and which will occupy us here The theory of disordered condensed systems tries to describe in the so called one particle approximation the properties of condensed media whose atomic structure exhibits no long range order Examples of such media are crystals with chaotically distributed impurities amorphous substances biopolymers and so on It is natural to describe the location of atoms and other characteristics of such media probabilistically in such a way that the characteristics of a region do not depend on the region s position and the characteristics of regions far apart are correlated only very weakly An appropriate model for such a medium is a homogeneous and ergodic that is metrically transitive random field **Spectra of Random and Almost-Periodic Operators** Leonid Pastur,Alexander Figotin,2011-12-10 In the last fifteen years the spectral properties of the Schrodinger equation and of other differential and finite difference operators with random and almost periodic coefficients have attracted considerable and ever increasing interest This is so not only because of the subject s position at the in tersection of operator spectral theory probability theory and mathematical physics but also because of its importance to theoretical physics and par ticularly to the theory of disordered condensed systems It was the requirements of this theory that motivated the initial study of differential operators with random coefficients in the fifties and sixties by the physicists Anderson 1 Lifshitz and Mott and today the same theory still exerts a strong influence on the discipline into which this study has evolved and which will occupy us here The theory of disordered condensed systems tries to describe in the so called one particle approximation the properties of condensed media whose atomic structure exhibits no long range order Examples of such media are crystals with chaotically distributed impurities amorphous substances biopolymers and so on It is natural to describe the location of atoms and other characteristics of such media probabilistically in such a way that the characteristics of a region do not depend on the region s position and the characteristics of regions far apart are correlated only very weakly An appropriate model for such a medium is a homogeneous and ergodic that is metrically transitive random field **Almost Periodic Operators and Related Nonlinear Integrable Systems** V. A. Chulaevskiĭ,1989 *Spectral Analysis of Differential Operators* Fedor S. Rofe-Beketov,Aleksandr M. Khol'kin,Ognjen Milatovic,2005 This is the first monograph devoted to the Sturm oscillatory

theory for infinite systems of differential equations and its relations with the spectral theory It aims to study a theory of self adjoint problems for such systems based on an elegant method of binary relations Another topic investigated in the book is the behavior of discrete eigenvalues which appear in spectral gaps of the Hill operator and almost periodic SchrAdinger operators due to local perturbations of the potential e g modeling impurities in crystals The book is based on results that have not been presented in other monographs The only prerequisites needed to read it are basics of ordinary differential equations and operator theory It should be accessible to graduate students though its main topics are of interest to research mathematicians working in functional analysis differential equations and mathematical physics as well as to physicists interested in spectral theory of differential operators **Methods of Spectral Analysis in Mathematical Physics** Jan Janas,Pavel Kurasov,A. Laptev,Sergei Naboko,Günter Stolz,2008-12-16 The volume contains the proceedings of the OTAMP 2006 Operator Theory Analysis and Mathematical Physics conference held at Lund University in June 2006 The conference was devoted to the methods of analysis and operator theory in modern mathematical physics The following special sessions were organized Spectral analysis of Schr dinger operators Jacobi and CMV matrices and orthogonal polynomials Quasi periodic and random Schr dinger operators Quantum graphs *New Trends in Mathematical Physics* Vladas Sidoravicius,2009-08-31 This book collects selected papers written by invited and plenary speakers of the 15th International Congress on Mathematical Physics ICMP in the aftermath of the conference In extensive review articles and expository texts as well as advanced research articles the world leading experts present the state of the art in modern mathematical physics New mathematical concepts and ideas are introduced by prominent mathematicalphysicists and mathematicians covering among others the fields of Dynamical Systems Operator Algebras Partial Differential Equations Probability Theory Random Matrices Condensed Matter Physics Statistical Mechanics General Relativity Quantum Mechanics Quantum Field Theory Quantum Information and String Theory All together the contributions in this book give a panoramic view of the latest developments in mathematical physics They will help readers with a general interest in mathematical physics to get an update on the most recent developments in their field and give a broad overview on actual and future research directions in this fascinating and rapidly expanding area **Advances in Differential Equations and Mathematical Physics** Yulia E. Karpeshina,2003 This volume presents the proceedings of the 9th International Conference on Differential Equations and Mathematical Physics It contains 29 research and survey papers contributed by conference participants The conference provided researchers a forum to present and discuss their recent results in a broad range of areas encompassing the theory of differential equations and their applications in mathematical physics Papers in this volume represent some of the most interesting results and the major areas of research that were covered including spectral theory with applications to non relativistic and relativistic quantum mechanics including time dependent and random potential resonances many body systems pseudodifferential operators and quantum dynamics inverse spectral and scattering problems the theory of linear

and nonlinear partial differential equations with applications in fluid dynamics conservation laws and numerical simulations as well as equilibrium and nonequilibrium statistical mechanics The volume is intended for graduate students and researchers interested in mathematical physics **Xivth International Congress On Mathematical Physics** Jean-claude Zambrini,2006-03-07 In 2003 the XIV International Congress on Mathematical Physics ICMP was held in Lisbon with more than 500 participants Twelve plenary talks were given in various fields of Mathematical Physics E Carlen On the relation between the Master equation and the Boltzmann Equation in Kinetic Theory A Chenciner Symmetries and simple solutions of the classical n body problem M J Esteban Relativistic models in atomic and molecular physics K Fredenhagen Locally covariant quantum field theory K Gawedzki Simple models of turbulent transport I Krichever Algebraic versus Liouville integrability of the soliton systems R V Moody Long range order and diffraction in mathematical quasicrystals S Smirnov Critical percolation and conformal invariance J P Solovej The energy of charged matter V Schomerus Strings through the microscope C Villani Entropy production and convergence to equilibrium for the Boltzmann equation D Voiculescu Aspects of free probability The book collects as well carefully selected invited Session Talks in Dynamical Systems Integrable Systems and Random Matrix Theory Condensed Matter Physics Equilibrium Statistical Mechanics Quantum Field Theory Operator Algebras and Quantum Information String and M Theory Fluid Dynamics and Nonlinear PDE General Relativity Nonequilibrium Statistical Mechanics Quantum Mechanics and Spectral Theory Path Integrals and Stochastic Analysis

Progress in Analysis Heinrich G. W. Begehr,Robert Pertsch Gilbert,Man Wah Wong,2003 The biannual ISAAC congresses provide information about recent progress in the whole area of analysis including applications and computation This book constitutes the proceedings of the third meeting **Progress in Analysis** International Society for Analysis, Applications, and Computation. Congress,2003-01-01 The biannual ISAAC congresses provide information about recent progress in the whole area of analysis including applications and computation This book constitutes the proceedings of the third meeting Contents Volume 1 Function Spaces and Fractional Calculus V I Burenkov Asymptotic Decomposition Methods of Small Parameters Averaging Theory J A Dubinski Integral Transforms and Applications S Saitoh et al Analytic Functionals Hyperfunctions and Generalized Functions M Morimoto Geometric Function Theory G Kohr omplex Function Spaces R Aulaskari Value Distribution Theory and Complex Dynamics C C Yang Clifford Analysis K Grlebeck et al Octonions T Dray Nonlinear Potential Theory O Martio Classical and Fine Potential Theory Holomorphic and Finely Holomorphic Functions P Tamrazov Differential Geometry and Control Theory for PDEs B Gulliver et al Differential Geometry and Quantum Physics Dynamical Systems B Fiedler Attractors for Partial Differential Equations G Raugel Spectral Theory of Differential Operators B Vainberg Pseudodifferential Operators Quantization and Signal Analysis M W Wong Microlocal Analysis B W Schulze Volume 2 Complex and Functional Analytic Methods in PDEs A Cialdea et al Geometric Properties of Solutions of PDEs R Magnanini Qualitative Properties of Solutions of Hyperbolic and SchrAdinger Equations M Reissig Homogenization Moving

Boundaries and Porous Media A Bourgeat Constructive Methods in Applied Problems P Krutitskii Waves in Complex Media R P Gilbert Nonlinear Waves I Lasiecka Mathematical Analysis of Problems in Solid Mechanics K Hackl Direct and Inverse Scattering L Fishman Inverse Problems G N Makrakis et al Mathematical Methods in Non Destructive Evaluation and Non Destructive Testing A Wirgin Numerical Methods for PDEs Systems and Optimization A Ben Israel I Herrera Readership Graduate students and researchers in real complex numerical analysis as well as mathematical physics Progress In Analysis, Proceedings Of The 3rd Isaac Congress (In 2 Volumes) Heinrich G W Begehr,Robert Pertsch Gilbert,Man-wah Wong,2003-08-04 The biannual ISAAC congresses provide information about recent progress in the whole area of analysis including applications and computation This book constitutes the proceedings of the third meeting *Spectral Analysis of Quantum Hamiltonians* Rafael Benguria,Eduardo Friedman,Marius Mantoiu,2012-06-30 This volume contains surveys as well as research articles broadly centered on spectral analysis Topics range from spectral continuity for magnetic and pseudodifferential operators to localization in random media from the stability of matter to properties of Aharonov Bohm and Quantum Hall Hamiltonians from waveguides and resonances to supersymmetric models and dissipative fermion systems This is the first of a series of volumes reporting every two years on recent progress in spectral theory **Adventures in Mathematical Physics** Jean-Michel Combes,François Germinet,2007 This volume consists of refereed research articles written by some of the speakers at this international conference in honor of the sixty fifth birthday of Jean Michel Combes The topics span modern mathematical physics with contributions on state of the art results in the theory of random operators including localization for random Schrodinger operators with general probability measures random magnetic Schrodinger operators and interacting multiparticle operators with random potentials transport properties of Schrodinger operators and classical Hamiltonian systems equilibrium and nonequilibrium properties of open quantum systems semiclassical methods for multiparticle systems and long time evolution of wave packets modeling of nanostructures properties of eigenfunctions for first order systems and solutions to the Ginzburg Landau system effective Hamiltonians for quantum resonances quantum graphs including scattering theory and trace formulas random matrix theory and quantum information theory Graduate students and researchers will benefit from the accessibility of these articles and their current bibliographies Theory of Stochastic Canonical Equations V.L. Girko,2012-12-06 Theory of Stochastic Canonical Equations collects the major results of thirty years of the author s work in the creation of the theory of stochastic canonical equations It is the first book to completely explore this theory and to provide the necessary tools for dealing with these equations Included are limit phenomena of sequences of random matrices and the asymptotic properties of the eigenvalues of such matrices The book is especially interesting since it gives readers a chance to study proofs written by the mathematician who discovered them All fifty nine canonical equations are derived and explored along with their applications in such diverse fields as probability and statistics economics and finance statistical physics quantum mechanics control theory cryptography and communications

networks Some of these equations were first published in Russian in 1988 in the book Spectral Theory of Random Matrices published by Nauka Science Moscow An understanding of the structure of random eigenvalues and eigenvectors is central to random matrices and their applications Random matrix analysis uses a broad spectrum of other parts of mathematics linear algebra geometry analysis statistical physics combinatories and so forth In return random matrix theory is one of the chief tools of modern statistics to the extent that at times the interface between matrix analysis and statistics is notably blurred Volume I of Theory of Stochastic Canonical Equations discusses the key canonical equations in advanced random matrix analysis Volume II turns its attention to a broad discussion of some concrete examples of matrices It contains in depth discussion of modern highly specialized topics in matrix analysis such as unitary random matrices and Jacoby random matrices The book is intended for a variety of readers students engineers statisticians economists and others

Mathematical Results in Quantum Mechanics Jaroslav Dittrich,Pavel Exner,Milos Tater,2012-12-06 At the age of almost three quarters of a century quantum mechanics is by all accounts a mature theory There were times when it seemed that it had borne its best fruit already and would give way to investigation of deeper levels of matter Today this sounds like rash thinking Modern experimental techniques have led to discoveries of numerous new quantum effects in solid state optics and elsewhere Quantum mechanics is thus gradually becoming a basis for many branches of applied physics in this way entering our everyday life While the dynamic laws of quantum mechanics are well known a proper theoretical understanding requires methods which would allow us to de rive the abundance of observed quantum effects from the first principles In many cases the rich structure hidden in the Schr6dinger equation can be revealed only using sophisticated tools This constitutes a motivation to investigate rigorous methods which yield mathematically well founded properties of quantum systems Geometric Structures on Manifolds William M. Goldman,2022-12-20 The theory of geometric structures on manifolds which are locally modeled on a homogeneous space of a Lie group traces back to Charles Ehresmann in the 1930s although many examples had been studied previously Such locally homogeneous geometric structures are special cases of Cartan connections where the associated curvature vanishes This theory received a big boost in the 1970s when W Thurston put his geometrization program for 3 manifolds in this context The subject of this book is more ambitious in scope Unlike Thurston s eight 3 dimensional geometries it covers structures which are not metric structures such as affine and projective structures This book describes the known examples in dimensions one two and three Each geometry has its own special features which provide special tools in its study Emphasis is given to the interrelationships between different geometries and how one kind of geometric structure induces structures modeled on a different geometry Up to now much of the literature has been somewhat inaccessible and the book collects many of the pieces into one unified work This book focuses on several successful classification problems Namely fix a geometry in the sense of Klein and a topological manifold Then the different ways of locally putting the geometry on the manifold lead to a moduli space Often the moduli space carries a rich geometry of

its own reflecting the model geometry The book is self contained and accessible to students who have taken first year graduate courses in topology smooth manifolds differential geometry and Lie groups **Analytical and Computational Methods in Scattering and Applied Mathematics** Fadil Santosa,Ivar Stakgold,2019-05-07 Professor Ralph Kleinman was director of the Center for the Mathematics of Waves and held the UNIDEL Professorship of the University of Delaware Before his death in 1998 he made major scientific contributions in the areas of electromagnetic scattering wave propagation and inverse problems He was instrumental in bringing together the mathematic Wave Propagation in Complex Media George Papanicolaou,2012-12-06 This IMA Volume in Mathematics and its Applications WAVE PROPAGATION IN COMPLEX MEDIA is based on the proceedings of two workshops Wavelets multigrid and other fast algorithms multipole FFT and their use in wave propagation and Waves in random and other complex media Both workshops were integral parts of the 1994 1995 IMA program on Waves and Scattering We would like to thank Gregory Beylkin Robert Burridge Ingrid Daubechies Leonid Pastur and George Papanicolaou for their excellent work as organizers of these meetings We also take this opportunity to thank the National Science Foun dation NSF the Army Research Office ARO and the Office of Naval Research ONR whose financial support made these workshops possible A vner Friedman Robert Gulliver v PREFACE During the last few years the numerical techniques for the solution of elliptic problems in potential theory for example have been drastically improved Several so called fast methods have been developed which re duce the required computing time many orders of magnitude over that of classical algorithms The new methods include multigrid fast Fourier transforms multi pole methods and wavelet techniques Wavelets have re cently been developed into a very useful tool in signal processing the solu tion of integral equation etc Wavelet techniques should be quite useful in many wave propagation problems especially in inhomogeneous and nonlin ear media where special features of the solution such as singularities might be tracked efficiently **Wave Propagation and Time Reversal in Randomly Layered Media** Jean-Pierre Fouque,Josselin Garnier,G. Papanicolaou,Knut Solna,2007-06-30 Our motivation for writing this book is twofold First the theory of waves propagating in randomly layered media has been studied extensively during the last thirty years but the results are scattered in many di erent papers This theory is now in a mature state especially in the very interesting regime of separation of scales as introduced by G Papanicolaou and his coauthors and described in 8 which is a building block for this book Second we were motivatedbythe time reversalexperimentsofM Finkandhis groupinParis They were done with ultrasonic waves and have attracted considerable att tion because of the surprising e ects of enhanced spatial focusing and time compression in random media An exposition of this work and its appli tions is presented in 56 Time reversal experiments were also carried out with sonar arrays in shallow water by W Kuperman 113 and his group in San Diego The enhanced spatial focusing and time compression of signals in time reversal in randommedia have many diverse applications in detection and in focused energy delivery on small targets as for example in the struction of kidney stones Enhanced spatial focusing is also useful in sonar and wireless communications for

reducing interference Time reversal ideas have played an important role in the development of new methods for array imaging in random media as presented in 19 *Mathematical Results in Quantum Mechanics* M. Demuth,P. Exner,H. Neidhardt,V. Zagrebnov,2012-12-06 The last decades have demonstrated that quantum mechanics is an inexhaustible source of inspiration for contemporary mathematical physics Of course it seems to be hardly surprising if one casts a glance toward the history of the subject recall the pioneering works of von Neumann Weyl Kato and their followers which pushed forward some of the classical mathematical disciplines functional analysis differential equations group theory etc On the other hand the evident powerful feedback changed the face of the naive quantum physics It created a contem porary quantum mechanics the mathematical problems of which now constitute the backbone of mathematical physics The mathematical and physical aspects of these problems cannot be separated even if one may not share the opinion of Hilbert who rigorously denied differences between pure and applied mathemat ics and the fruitful oscilllation between the two creates a powerful stimulus for development of mathematical physics The International Conference on Mathematical Results in Quantum Mechan ics held in Blossin near Berlin May 17 21 1993 was the fifth in the series of meetings started in Dubna in the former USSR in 1987 which were dedicated to mathematical problems of quantum mechanics A primary motivation of any meeting is certainly to facilitate an exchange of ideas but there also other goals The first meeting and those that followed Dubna 1988 Dubna 1989 Liblice in the Czech Republic 1990 were aimed in particular at paving ways to East West contacts

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