Spectral Theory of Automorphic Functions

Spectral Theory Of Automorphic Functions

Andrew M. Gleason,American
Mathematical Society

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Spectral Theory of Automorphic Functions A. B. Venkov,1983 **Spectral Methods of Automorphic Forms** Henryk Iwaniec,2002 Automorphic forms are one of the central topics of analytic number theory In fact they sit at the confluence of analysis algebra geometry and number theory In this book Henryk Iwaniec once again displays his penetrating insight powerful analytic techniques and lucid writing style The first edition of this volume was an underground classic both as a textbook and as a respected source for results ideas and references The book s reputation sparked a growing interest in the mathematical community to bring it back into print The AMS has answered that call with the publication of this second edition In the book Iwaniec treats the spectral theory of automorphic forms as the study of the space L 2 H Gamma where H is the upper half plane and Gamma is a discrete subgroup of volume preserving transformations of H He combines various techniques from analytic number theory Among the topics discussed are Eisenstein series estimates for Fourier coefficients of automorphic forms the theory of Kloosterman sums the Selberg trace formula and the theory of small eigenvalues Henryk Iwaniec was awarded the 2002 AMS Cole Prize for his fundamental contributions to analytic number theory Also available from the AMS by H Iwaniec is Topics in Classical Automorphic Forms Volume 17 in the Graduate Studies in Mathematics series The book is designed for graduate students and researchers working in analytic number theory Spectral Theory of Automorphic Functions A B Venkov,1990-10-31 Spectral Theory of Automorphic Functions A. B. Venkov,1981

Cohomological Theory of Dynamical Zeta Functions Andreas Juhl,2012-12-06 Dynamical zeta functions are associated to dynamical systems with a countable set of periodic orbits The dynamical zeta functions of the geodesic flow of lo cally symmetric spaces of rank one are known also as the generalized Selberg zeta functions The present book is concerned with these zeta functions from a cohomological point of view Originally the Selberg zeta function appeared in the spectral theory of automorphic forms and were suggested by an analogy between Weil s explicit formula for the Riemann zeta function and Selberg s trace formula 261 The purpose of the cohomological theory is to understand the analytical properties of the zeta functions on the basis of suitable analogs of the Lefschetz fixed point formula in which periodic orbits of the geodesic flow take the place of fixed points This approach is parallel to Weil s idea to analyze the zeta functions of pro jective algebraic varieties over finite fields on the basis of suitable versions of the Lefschetz fixed point formula The Lefschetz formula formalism shows that the divisors of the rational Hassc Wcil zeta functions are determined by the spectra of Frobenius operators on l adic cohomology *Mathematical Quantum Theory II* Joel S. Feldman,Richard Gerd Froese,Lon M. Rosen,1995 **Analytic Number Theory, Mathematical Analysis and Their Applications** Nikolaĭ Nikolaevich Bogoli︠u︡bov,K. K. Mardzhanishvili,1984 This Proceedings of the Steklov Institute of Mathematics together with the volume preceding it Volume 157 is a collection of papers dedicated to Academician I M Vinogradov on his ninetieth birthday This volume contains original papers on various branches of mathematics analytic number theory algebra partial differential

equations probability theory and differential games   <u>Scattering Theory for Automorphic Functions</u> Peter D. Lax,Ralph S. Phillips,1976 The application by Fadeev and Pavlov of the Lax Phillips scattering theory to the automorphic wave equation led Professors Lax and Phillips to reexamine this development within the framework of their theory This volume sets forth the results of that work in the form of new or more straightforward treatments of the spectral theory of the Laplace Beltrami operator over fundamental domains of finite area the meromorphic character over the whole complex plane of the Eisenstein series and the Selberg trace formula CONTENTS 1 Introduction 2 An abstract scattering theory 3 A modified theory for second order equations with an indefinite energy form 4 The Laplace Beltrami operator for the modular group 5 The automorphic wave equation 6 Incoming and outgoing subspaces for the automorphic wave equations 7 The scattering matrix for the automorphic wave equation 8 The general case 9 The Selberg trace formula   *Introduction to the Spectral Theory of Automorphic Forms* Henryk Iwaniec,1995   **Automorphic Forms and Related Topics** Samuele Anni,Jay Jorgenson,Lejla Smajlović,Lynne Walling,2019-06-19 This volume contains the proceedings of the Building Bridges 3rd EU US Summer School and Workshop on Automorphic Forms and Related Topics which was held in Sarajevo from July 11 22 2016 The articles summarize material which was presented during the lectures and speed talks during the workshop These articles address various aspects of the theory of automorphic forms and its relations with the theory of L functions the theory of elliptic curves and representation theory In addition to mathematical content the workshop held a panel discussion on diversity and inclusion which was chaired by a social scientist who has contributed to this volume as well This volume is intended for researchers interested in expanding their own areas of focus thus allowing them to build bridges to mathematical questions in other fields   **Collected Papers V** Serge Lang,2000-10-23 Serge Lang 1927 2005 was one of the top mathematicians of our time He was born in Paris in 1927 and moved with his family to California where he graduated from Beverly Hills High School in 1943 He subsequently graduated from California Institute of Technology in 1946 and received a doctorate from Princeton University in 1951 before holding faculty positions at the University of Chicago and Columbia University 1955 1971 At the time of his death he was professor emeritus of Mathematics at Yale University An excellent writer Lang has made innumerable and invaluable contributions in diverse fields of mathematics He was perhaps best known for his work in number theory and for his mathematics textbooks including the influential Algebra He was also a member of the Bourbaki group He was honored with the Cole Prize by the American Mathematical Society as well as with the Prix Carri re by the French Academy of Sciences These five volumes collect the majority of his research papers which range over a variety of topics   **Spectral Theory of the Riemann Zeta-Function** Yoichi Motohashi,1997-09-11 The Riemann zeta function is one of the most studied objects in mathematics and is of fundamental importance In this book based on his own research Professor Motohashi shows that the function is closely bound with automorphic forms and that many results from there can be woven with techniques and ideas from analytic number theory to yield new insights into and views of the

zeta function itself The story starts with an elementary but unabridged treatment of the spectral resolution of the non Euclidean Laplacian and the trace formulas This is achieved by the use of standard tools from analysis rather than any heavy machinery forging a substantial aid for beginners in spectral theory as well These ideas are then utilized to unveil an image of the zeta function first perceived by the author revealing it to be the main gem of a necklace composed of all automorphic L functions In this book readers will find a detailed account of one of the most fascinating stories in the development of number theory namely the fusion of two main fields in mathematics that were previously studied separately   Selected Papers II Peter D Lax,2005-05-20 A renowned mathematician who considers himself both applied and theoretical in his approach Peter Lax has spent most of his professional career at NYU making significant contributions to both mathematics and computing He has written several important published works and has received numerous honors including the National Medal of Science the Lester R Ford Award the Chauvenet Prize the Semmelweis Medal the Wiener Prize and the Wolf Prize Several students he has mentored have become leaders in their fields Two volumes span the years from 1952 up until 1999 and cover many varying topics from functional analysis partial differential equations and numerical methods to conservation laws integrable systems and scattering theory After each paper or collection of papers is a commentary placing the paper in context and where relevant discussing more recent developments Many of the papers in these volumes have become classics and should be read by any serious student of these topics In terms of insight depth and breadth Lax has few equals The reader of this selecta will quickly appreciate his brilliance as well as his masterful touch Having this collection of papers in one place allows one to follow the evolution of his ideas and mathematical interests and to appreciate how many of these papers initiated topics that developed lives of their own   **Russian Mathematical Surveys** ,1999   *Mathematical Problems in Theoretical Physics* Robert Schrader,Rudolf Seiler,Dietrich A. Uhlenbrock,1982   **Teichmüller's Moduli Problem of the Once Punctured Tori and the Spectral Theory of Automorphic Functions** Roland Schmidt,2000   **St. Petersburg Mathematical Journal** ,2006   *Families of Automorphic Forms* Roelof W. Bruggeman,2010-02-28 Automorphic forms on the upper half plane have been studied for a long time Most attention has gone to the holomorphic automorphic forms with numerous applications to number theory Maass 34 started a systematic study of real analytic automorphic forms He extended Hecke s relation between automorphic forms and Dirichlet series to real analytic automorphic forms The names Selberg and Roelcke are connected to the spectral theory of real analytic automorphic forms see e g 50 51 This culminates in the trace formula of Selberg see e g Hejhal 21 Automorphicformsarefunctionsontheupperhalfplanewithaspecialtra formation behavior under a discontinuous group of non euclidean motions in the upper half plane One may ask how automorphic forms change if one perturbs this group of motions This question is discussed by e g Hejhal 22 and Phillips and Sarnak 46 Hejhal also discusses the e ect of variation of the multiplier s tem a function on the discontinuous group that occurs in the description of the transformation behavior of

automorphic forms In 5 7 I considered variation of automorphic forms for the full modular group under perturbation of the m tiplier system A method based on ideas of Colin de Verdi ere 11 12 gave the meromorphic continuation of Eisenstein and Poincar e series as functions of the eigenvalue and the multiplier system jointly The present study arose from a plan to extend these results to much more general groups discrete co nite subgroups of SL R   Proceedings of the International Congress of Mathematicians Andrew M. Gleason,American Mathematical Society,1987   *Bulletin (new Series) of the American Mathematical Society* ,2004

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