Anton Good

Local Analysis of Selberg's Trace Formula

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Local Analysis Of Selbergs Trace Formula

Werner Müller,Sug Woo Shin,Nicolas Templier

Local Analysis Of Selbergs Trace Formula:

Local Analysis of Selberg's Trace Formula A. Good,2014-01-15 **Lecture Notes in Mathematics** ,1964 **Local Analysis of Selberg's Trace Formula** A. Good,2006-11-14 The Selberg-Arthur Trace Formula Salahoddin Shokranian,2006-11-14 This book based on lectures given by James Arthur discusses the trace formula of Selberg and Arthur The emphasis is laid on Arthur s trace formula for GL r with several examples in order to illustrate the basic concepts The book will be useful and stimulating reading for graduate students in automorphic forms analytic number theory and non commutative harmonic analysis as well as researchers in these fields Contents I Number Theory and Automorphic Representations 1 1 Some problems in classical number theory 1 2 Modular forms and automorphic representations II Selberg s Trace Formula 2 1 Historical Remarks 2 2 Orbital integrals and Selberg s trace formula 2 3 Three examples 2 4 A necessary condition 2 5 Generalizations and applications III Kernel Functions and the Convergence Theorem 3 1 Preliminaries on GL r 3 2 Combinatorics and reduction theory 3 3 The convergence theorem IV The Ad lic Theory 4 1 Basic facts V The Geometric Theory 5 1 The JTO f and JT f distributions 5 2 A geometric I function 5 3 The weight functions VI The Geometric Expansionof the Trace Formula 6 1 Weighted orbital integrals 6 2 The unipotent distribution VII The Spectral Theory 7 1 A review of the Eisenstein series 7 2 Cusp forms truncation the trace formula VIII The Invariant Trace Formula and its Applications 8 1 The invariant trace formula for GL r 8 2 Applications and remarks *Lectures on the Arthur-Selberg Trace Formula* Stephen S. Gelbart,1996 The Arthur Selberg trace formula is an equality between two kinds of traces the geometric terms given by the conjugacy classes of a group and the spectral terms given by the induced representations In general these terms require a truncation in order to converge which leads to an equality of truncated kernels The formulas are difficult in general and even the case of GL 2 is nontrivial The book gives proof of Arthur s trace formula of the 1970s and 1980s with special attention given to GL 2 The problem is that when the truncated terms converge they are also shown to be polynomial in the truncation variable and expressed as weighted orbital and weighted characters In some important cases the trace formula takes on a simple form over G The author gives some examples of this and also some examples of Jacquet s relative trace formula This work offers for the first time a simultaneous treatment of a general group with the case of GL 2 It also treats the trace formula with the example of Jacquet s relative formula Features Discusses why the terms of the geometric and spectral type must be truncated and why the resulting truncations are polynomials in the truncation of value T Brings into play the significant tool of G M families and how the theory of Paley Weiner is applied Explains why the truncation formula reduces to a simple formula involving only the elliptic terms on the geometric sides with the representations appearing cuspidally on the spectral side applies to Tamagawa numbers Outlines Jacquet s trace formula and shows how it works for GL 2 *Sum Formula for SL$_2$ over a Totally Real Number Field* Roelof W. Bruggeman,Roberto J. Miatello,2009-01-21 The authors prove a general form of the sum formula mathrm SL _2 over a totally real number field This

formula relates sums of Kloosterman sums to products of Fourier coefficients of automorphic representations The authors give two versions the spectral sum formula in short sum formula and the Kloosterman sum formula They have the independent test function in the spectral term in the sum of Kloosterman sums respectively   *Eigenfunctions of the Laplacian on a Riemannian Manifold* Steve Zelditch,2017-12-12 Eigenfunctions of the Laplacian of a Riemannian manifold can be described in terms of vibrating membranes as well as quantum energy eigenstates This book is an introduction to both the local and global analysis of eigenfunctions The local analysis of eigenfunctions pertains to the behavior of the eigenfunctions on wavelength scale balls After re scaling to a unit ball the eigenfunctions resemble almost harmonic functions Global analysis refers to the use of wave equation methods to relate properties of eigenfunctions to properties of the geodesic flow The emphasis is on the global methods and the use of Fourier integral operator methods to analyze norms and nodal sets of eigenfunctions A somewhat unusual topic is the analytic continuation of eigenfunctions to Grauert tubes in the real analytic case and the study of nodal sets in the complex domain The book which grew out of lectures given by the author at a CBMS conference in 2011 provides complete proofs of some model results but more often it gives informal and intuitive explanations of proofs of fairly recent results It conveys inter related themes and results and offers an up to date comprehensive treatment of this important active area of research   **Spectral Methods of Automorphic Forms** Henryk Iwaniec,2021-11-17 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 book was an underground classic both as a textbook and as a respected source for results ideas and references Iwaniec treats the spectral theory of automorphic forms as the study of the space of L 2 functions on the upper half plane modulo a discrete subgroup Key topics include Eisenstein series estimates of Fourier coefficients Kloosterman sums the Selberg trace formula and the theory of small eigenvalues Henryk Iwaniec was awarded the 2002 Cole Prize for his fundamental contributions to number theory   **Harmonic Analysis, the Trace Formula, and Shimura Varieties** Clay Mathematics Institute. Summer School,2005 Langlands program proposes fundamental relations that tie arithmetic information from number theory and algebraic geometry with analytic information from harmonic analysis and group representations This title intends to provide an entry point into this exciting and challenging field   *Families of Automorphic Forms and the Trace Formula* Werner Müller,Sug Woo Shin,Nicolas Templier,2016-09-20 Featuring the work of twenty three internationally recognized experts this volume explores the trace formula spectra of locally symmetric spaces p adic families and other recent techniques from harmonic analysis and representation theory Each peer reviewed submission in this volume based on the Simons Foundation symposium on families of automorphic forms and the trace formula held in Puerto Rico in January February 2014 is the product of intensive research collaboration by the participants over the course of the seven day workshop The goal of each

session in the symposium was to bring together researchers with diverse specialties in order to identify key difficulties as well as fruitful approaches being explored in the field The respective themes were counting cohomological forms p adic trace formulas Hecke fields slopes of modular forms and orbital integrals **Arithmetic Groups and Their Generalizations** Lizhen Ji,2008 In one guise or another many mathematicians are familiar with certain arithmetic groups such as mathbf Z or textrm SL n mathbf Z Yet many applications of arithmetic groups and many connections to other subjects within mathematics are less well known Indeed arithmetic groups admit many natural and important generalizations The purpose of this expository book is to explain through some brief and informal comments and extensive references what arithmetic groups and their generalizations are why they are important to study and how they can be understood and applied to many fields such as analysis geometry topology number theory representation theory and algebraic geometry It is hoped that such an overview will shed a light on the important role played by arithmetic groups in modern mathematics Titles in this series are co published with International Press Cambridge MA Table of Contents Introduction General comments on references Examples of basic arithmetic groups General arithmetic subgroups and locally symmetric spaces Discrete subgroups of Lie groups and arithmeticity of lattices in Lie groups Different completions of mathbb Q and S arithmetic groups over number fields Global fields and S arithmetic groups over function fields Finiteness properties of arithmetic and S arithmetic groups Symmetric spaces Bruhat Tits buildings and their arithmetic quotients Compactifications of locally symmetric spaces Rigidity of locally symmetric spaces Automorphic forms and automorphic representations for general arithmetic groups Cohomology of arithmetic groups K groups of rings of integers and K groups of group rings Locally homogeneous manifolds and period domains Non cofinite discrete groups geometrically finite groups Large scale geometry of discrete groups Tree lattices Hyperbolic groups Mapping class groups and outer automorphism groups of free groups Outer automorphism group of free groups and the outer spaces References Index Review from Mathematical Reviews the author deserves credit for having done the tremendous job of encompassing every aspect of arithmetic groups visible in today s mathematics in a systematic manner the book should be an important guide for some time to come AMSIP 43 *Representation Theory and Automorphic Forms* T. N. Bailey,Anthony W. Knapp,1997 The lectures from a course in the representation theory of semi simple groups automorphic forms and the relations between them The purpose is to help analysts make systematic use of Lie groups in work on harmonic analysis differential equations and mathematical physics and to provide number theorists with the representation theoretic input to Wiles s proof of Fermat s Last Theorem Begins with an introductory treatment of structure theory and ends with the current status of functionality Annotation copyrighted by Book News Inc Portland OR

Differential Geometry and Differential Equations Chaohao Gu,Marcel Berger,Robert L. Bryant,2006-11-15 The DD6 Symposium was like its predecessors DD1 to DD5 both a research symposium and a summer seminar and concentrated on differential geometry This volume contains a selection of the invited papers and some additional contributions They cover

recent advances and principal trends in current research in differential geometry   Automorphic Forms and Geometry of Arithmetic Varieties K. Hashimoto,Y. Namikawa,2014-07-14 Automorphic Forms and Geometry of Arithmetic Varieties deals with the dimension formulas of various automorphic forms and the geometry of arithmetic varieties The relation between two fundamental methods of obtaining dimension formulas for cusp forms the Selberg trace formula and the index theorem Riemann Roch s theorem and the Lefschetz fixed point formula is examined Comprised of 18 sections this volume begins by discussing zeta functions associated with cones and their special values followed by an analysis of cusps on Hilbert modular varieties and values of L functions The reader is then introduced to the dimension formula of Siegel modular forms the graded rings of modular forms in several variables and Selberg Ihara s zeta function for p adic discrete groups Subsequent chapters focus on zeta functions of finite graphs and representations of p adic groups invariants and Hodge cycles T complexes and Ogata s zeta zero values and the structure of the icosahedral modular group This book will be a useful resource for mathematicians and students of mathematics   **Degeneration of Abelian Varieties** Gerd Faltings,Ching-Li Chai,1991-01-09 A new and complete treatment of semi abelian degenerations of abelian varieties and their application to the construction of arithmetic compactifications of Siegel moduli space with most of the results being published for the first time Highlights of the book include a classification of semi abelian schemes construction of the toroidal and the minimal compactification over the integers heights for abelian varieties over number fields and Eichler integrals in several variables together with a new approach to Siegel modular forms A valuable source of reference for researchers and graduate students interested in algebraic geometry Shimura varieties or diophantine geometry   Path Integrals, Hyperbolic Spaces and Selberg Trace Formulae Christian Grosche,2013 In this second edition a comprehensive review is given for path integration in two and three dimensional homogeneous spaces of constant and non constant curvature including an enumeration of all the corresponding coordinate systems which allow separation of variables in the Hamiltonian and in the path integral The corresponding path integral solutions are presented as a tabulation Proposals concerning interbasis expansions for spheroidal coordinate systems are also given In particular the cases of non constant curvature Darboux spaces are new in this edition The volume also contains results on the numerical study of the properties of several integrable billiard systems in compact domains i e rectangles parallelepipeds circles and spheres in two and three dimensional flat and hyperbolic spaces In particular the discussions of integrable billiards in circles and spheres flat and hyperbolic spaces and in three dimensions are new in comparison to the first edition In addition an overview is presented on some recent achievements in the theory of the Selberg trace formula on Riemann surfaces its super generalization their use in mathematical physics and string theory and some further results derived from the Selberg super trace formula   **Area, Lattice Points, and Exponential Sums** M. N. Huxley,1996-06-13 In analytic number theory a large number of problems can be reduced to problems involving the estimation of exponential sums in one or several variables This book is a thorough treatment of the developments arising

from the method developed by Bombieri and Iwaniec in 1986 for estimating the Riemann zeta function on the line s 1 2 Huxley and his coworkers mostly Huxley have taken this method and vastly extended and improved it The powerful techniques presented here go considerably beyond older methods for estimating exponential sums such as van de Corput s method The potential for the method is far from being exhausted and there is considerable motivation for other researchers to try to master this subject However anyone currently trying to learn all of this material has the formidable task of wading through numerous papers in the literature This book simplifies that task by presenting all of the relevant literature and a good part of the background in one package The audience for the book will be mathematics graduate students and faculties with a research interest in analytic theory more specifically those with an interest in exponential sum methods The book is self contained any graduate student with a one semester course in analytic number theory should have a more than sufficient background   *Principles of Harmonic Analysis* Anton Deitmar,Siegfried Echterhoff,2008-12-04 The tread of this book is formed by two fundamental principles of Harmonic Analysis the Plancherel Formula and the Poisson S mation Formula We rst prove both for locally compact abelian groups For non abelian groups we discuss the Plancherel Theorem in the general situation for Type I groups The generalization of the Poisson Summation Formula to non abelian groups is the S berg Trace Formula which we prove for arbitrary groups admitting uniform lattices As examples for the application of the Trace F mula we treat the Heisenberg group and the group SL R In the 2 2 former case the trace formula yields a decomposition of the L space of the Heisenberg group modulo a lattice In the case SL R the 2 trace formula is used to derive results like the Weil asymptotic law for hyperbolic surfaces and to provide the analytic continuation of the Selberg zeta function We nally include a chapter on the app cations of abstract Harmonic Analysis on the theory of wavelets The present book is a text book for a graduate course on abstract harmonic analysis and its applications The book can be used as a follow up of the First Course in Harmonic Analysis 9 or indep dently if the students have required a modest knowledge of Fourier Analysis already In this book among other things proofs are given of Pontryagin Duality and the Plancherel Theorem for LCA groups which were mentioned but not proved in 9   Supersymmetry and Trace Formulae Igor V. Lerner,Jonathan P. Keating,David E. Khmelnitskii,2012-12-06 The motion of a particle in a random potential in two or more dimensions is chaotic and the trajectories in deterministically chaotic systems are effectively random It is therefore no surprise that there are links between the quantum properties of disordered systems and those of simple chaotic systems The question is how deep do the connec tions go And to what extent do the mathematical techniques designed to understand one problem lead to new insights into the other The canonical problem in the theory of disordered mesoscopic systems is that of a particle moving in a random array of scatterers The aim is to calculate the statistical properties of for example the quantum energy levels wavefunctions and conductance fluctuations by averaging over different arrays that is by averaging over an ensemble of different realizations of the random potential In some regimes corresponding to energy scales that are large compared to the mean

level spacing this can be done using diagrammatic perturbation theory In others where the discreteness of the quantum spectrum becomes important such an approach fails A more powerful method devel oped by Efetov involves representing correlation functions in terms of a supersymmetric nonlinear sigma model This applies over a wider range of energy scales covering both the perturbative and non perturbative regimes It was proved using this method that energy level correlations in disordered systems coincide with those of random matrix theory when the dimensionless conductance tends to infinity

Introduction to the Spectral Theory of Automorphic Forms Henryk Iwaniec,1995

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