Roelof W. Bruggeman

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Roelof W. Bruggeman

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Fourier Coefficients of Automorphic Forms R. W. Bruggeman,2006-11-15   **Lecture Notes in Mathematics** ,1964   *Fourier Coefficients of Automorphic Forms and Arthur Classification* Baiying Liu,2013   Exact and Asymptotic Formulas for the Fourier Coefficients of Automorphic Forms José Miguel Zapata Rolón,2016   **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   **L-Functions and Automorphic Forms** Jan Hendrik Bruinier,Winfried Kohnen,2018-02-22 This book presents a collection of carefully refereed research articles and lecture notes stemming from the Conference Automorphic Forms and L Functions held at the University of Heidelberg in 2016 The theory of automorphic forms and their associated L functions is one of the central research areas in modern number theory linking number theory arithmetic geometry representation theory and complex analysis in many profound ways The 19 papers cover a wide range of topics within the scope of the conference including automorphic L functions and their special values p adic modular forms Eisenstein series Borcherds products automorphic periods and many more   **Zeta Functions and Fourier Coefficients of Automorphic Forms on Unitary Groups** Livia Oh,1996   *Topics in Classical Automorphic Forms* Henryk Iwaniec,1997 This volume discusses various perspectives of the theory of automorphic forms drawn from the author s notes from a Rutgers University graduate course In addition to detailed and often nonstandard treatment of familiar theoretical topics the author also gives special attention to such subjects as theta functions and representatives by quadratic forms Annotation copyrighted by Book News Inc Portland OR   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 **The Eisenstein Matrix, Fourier Coefficients of Automorphic Forms, and Existence of Cusp Forms in Rank One Symmetric Spaces** Andrei Reznikov,1991 Automorphic Forms on GL (3,TR) D. Bump,2006-12-08

Automorphic Forms, Automorphic Representations, and Arithmetic Robert S. Doran,1999 Automorphic Forms Beyond GL_2 Ellen Elizabeth Eischen,Wee Teck Gan,Aaron Pollack,Zhiwei Yun,2024-03-26 The Langlands program has been a very active and central field in mathematics ever since its conception over 50 years ago It connects number theory representation theory and arithmetic geometry and other fields in a profound way There are nevertheless very few expository accounts beyond the GL 2 case This book features expository accounts of several topics on automorphic forms on higher rank groups including rationality questions on unitary group theta lifts and their applications to Arthur s conjectures quaternionic modular forms and automorphic forms over functions fields and their applications to inverse Galois problems It is based on the lecture notes prepared for the twenty fifth Arizona Winter School on Automorphic Forms beyond GL 2 held March 5 9 2022 at the University of Arizona in Tucson The speakers were Ellen Eischen Wee Teck Gan Aaron Pollack and Zhiwei Yun The exposition of the book is in a style accessible to students entering the field Advanced graduate students as well as researchers will find this a valuable introduction to various important and very active research areas

The Arithmetic and Spectral Analysis of Poincaré Series James W. Cogdell,Iiya Piatetski-Shapiro,2014-07-14 The Arithmetic and Spectral Analysis of Poincar series deals with the spectral properties of Poincar series and their relation to Kloosterman sums In addition to Poincar series for an arbitrary Fuchsian group of the first kind the spectral expansion of the Kloosterman Selberg zeta function is analyzed along with the adellic theory of Poincar series and Kloosterman sums over a global function field This volume is divided into two parts and begins with a discussion on Poincar series and Kloosterman sums for Fuchsian groups of the first kind A conceptual proof of Kuznetsov s formula and its generalization are presented in terms of the spectral analysis of Poincar series in the framework of representation theory An analysis of the spectral expansion of the Kloosterman Selberg zeta function is also included The second part develops the adellic theory of Poincar series and Kloosterman sums over a global function field The main result here is to show that in this context the analogue of the Linnik conjecture can be derived from the Ramanujan conjecture over function fields Whittaker models Kirillov models and Bessel functions are also considered along with the Kloosterman spectral formula convergence and continuation This book will be a valuable resource for students of mathematics **Automorphic Forms, Automorphic Representations,**

and Arithmetic Robert S Doran Ze Li Dou George T Gilbert,1999-06-22 *Averages Involving Fourier Coefficients of Non Analytic Automorphic Forms* V. Venugopal Rao,1968 *Journal of Research of the National Bureau of Standards* United States. National Bureau of Standards,1967 **Journal of Research of the National Bureau of Standards** ,1967

  Representation Theory, Number Theory, and Invariant Theory Jim Cogdell,Ju-Lee Kim,Chen-Bo Zhu,2017-10-19 This book contains selected papers based on talks given at the Representation Theory Number Theory and Invariant Theory conference held at Yale University from June 1 to June 5 2015 The meeting and this resulting volume are in honor of Professor Roger Howe on the occasion of his 70th birthday whose work and insights have been deeply influential in the development of these fields The speakers who contributed to this work include Roger Howe s doctoral students Roger Howe himself and other world renowned mathematicians Topics covered include automorphic forms invariant theory representation theory of reductive groups over local fields and related subjects *Geometric Aspects of the Trace Formula* Werner Müller,Sug Woo Shin,Nicolas Templier,2018-10-11 The second of three volumes devoted to the study of the trace formula these proceedings focus on automorphic representations of higher rank groups Based on research presented at the 2016 Simons Symposium on Geometric Aspects of the Trace Formula that took place in Schloss Elmau Germany the volume contains both original research articles and articles that synthesize current knowledge and future directions in the field The articles discuss topics such as the classification problem of representations of reductive groups the structure of Langlands and Arthur packets interactions with geometric representation theory and conjectures on the global automorphic spectrum Suitable for both graduate students and researchers this volume presents the latest research in the field Readers of the first volume Families of Automorphic Forms and the Trace Formula will find this a natural continuation of the study of the trace formula

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