Representation Theory And Automorphic Functions Representation Theory And Automorphic Forms

Contributions to Automorphic Forms, Geometry, and Number TheoryRepresentation Theory and Automorphic FormsShafarevich Maps and Automorphic FormsRepresentation Theory and Automorphic FormsModular And Automorphic Forms & BeyondAutomorphic Forms, Representations and L-FunctionsAutomorphic FormsTopics in Classical Automorphic FormsL-Functions and Automorphic FormsRepresentation Theory and Automorphic FormsRepresentation Theory and Automorphic FormsRepresentation Theory and Automorphic FormsPartition Functions and Automorphic FormsDirichlet Series and Automorphic FormsDiscontinuous Groups and Automorphic FunctionsAutomorphic Forms on SL2 (R)Cohomology of Arithmetic Groups and Automorphic FormsMultiple Dirichlet Series, L-functions and Automorphic FormsDirichlet Series and Automorphic FormsModern Analysis of Automorphic Forms By Example Haruzo Hida Toshiyuki Kobayashi János Kollár T. N. Bailey Hossein Movasati Armand Borel Anton Deitmar Henryk Iwaniec Jan Hendrik Bruinier Toshiyuki Kobayashi Paul Sally Toshiyuki Kobayashi Valery A. Gritsenko A. Weil Joseph Lehner Armand Borel Jean-Pierre Labesse Daniel Bump A. Weil Paul Garrett

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in contributions to automorphic forms geometry and number theory haruzo hida dinakar ramakrishnan and freydoon shahidi bring together a distinguished group of experts to explore automorphic forms principally via the associated l functions representation theory and geometry because these themes are at the cutting edge of a central area of modern mathematics and are related to the philosophical base of wiles proof of fermat s last theorem this book will be of interest to working mathematicians and students alike never previously published the contributions to this volume expose the reader to a host of difficult and thought provoking problems each of the extraordinary and noteworthy mathematicians in this volume makes a unique contribution to a field that is currently seeing explosive growth new and powerful results are being proved radically and continually changing the field s make up contributions to automorphic forms geometry and number theory will likely lead to vital interaction among researchers and also help prepare students and other young mathematicians to enter this exciting area of pure mathematics contributors jeffrey adams jeffrey d adler james arthur don blasius siegfried boecherer daniel bump william casselmann laurent clozel james cogdell laurence corwin solomon friedberg masaaki furusawa benedict gross thomas hales joseph harris michael harris jeffrey hoffstein hervé jacquet dihua jiang nicholas katz henry kim victor kreiman stephen kudla philip kutzko v lakshmibai robert langlands erez lapid ilya piatetski shapiro dipendra prasad stephen rallis dinakar ramakrishnan paul sally freydoon shahidi peter sarnak rainer schulze pillot joseph shalika david soudry ramin takloo bigash yuri tschinkel emmanuel ullmo marie france vignéras jean loup waldspurger

this volume uses a unified approach to representation theory and automorphic forms it collects papers written by leading mathematicians that track recent progress in the expanding fields of representation theory and automorphic forms and their association with number theory and differential geometry topics include automorphic forms and distributions modular forms visible actions dirac cohomology holomorphic forms harmonic analysis self dual representations and langlands functoriality conjecture both graduate students and researchers will find inspiration in this volume

the aim of this book is to study various geometric properties and algebraic invariants of smooth projective varieties with infinite fundamental groups this approach allows for much interplay between methods of algebraic geometry complex analysis the theory of harmonic maps and topology making systematic use of shafarevich maps a concept previously introduced by the author this work isolates those varieties where the fundamental group influences global properties of the canonical class the book is primarily geared

toward researchers and graduate students in algebraic geometry who are interested in the structure and classification theory of algebraic varieties there are however presentations of many other applications involving other topics as well such as abelian varieties theta functions and automorphic forms on bounded domains the methods are drawn from diverse sources including atiyah s l2 index theorem gromov s theory of poincaré series and recent generalizations of kodaira s vanishing theorem originally published in 1995 the princeton legacy library uses the latest print on demand technology to again make available previously out of print books from the distinguished backlist of princeton university press these editions preserve the original texts of these important books while presenting them in durable paperback and hardcover editions the goal of the princeton legacy library is to vastly increase access to the rich scholarly heritage found in the thousands of books published by princeton university press since its founding in 1905

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

the guiding principle in this monograph is to develop a new theory of modular forms which encompasses most of the available theory of modular forms in the literature such as those for congruence groups siegel and hilbert modular forms many types of automorphic forms on hermitian symmetric domains calabi yau modular forms with its examples such as yukawa couplings and topological string partition functions and even go beyond all these cases its main ingredient is the so called gauss manin connection in disguise

this was the conference on l functions and automorphic forms

automorphic forms are an important complex analytic tool in number theory and modern arithmetic geometry they played for example a vital role in andrew wiles s proof of fermat s last theorem this text provides a concise introduction to the world of automorphic forms using two approaches the classic elementary theory and the modern point of view of adeles and representation theory the reader will learn the important aims and results of the theory by focussing on its essential aspects and restricting it to the base field of rational numbers students interested for example in arithmetic geometry or number theory will find that this book

provides an optimal and easily accessible introduction into this topic

this book is based on the notes from the graduate course given by the author at rutgers university in the fall of 1994 and the spring of 1995 the main goal of the book is to acquaint the reader with various perspectives of the theory of automorphic forms in addition to detailed and often nonstandard exposition of familiar topics of the theory particular attention is paid to such subjects as theta functions and representations by quadratic forms

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

this volume uses a unified approach to representation theory and automorphic forms it collects papers written by leading mathematicians that track recent progress in the expanding fields of representation theory and automorphic forms and their association with number theory and differential geometry topics include automorphic forms and distributions modular forms visible actions dirac cohomology holomorphic forms harmonic analysis self dual representations and langlands functoriality conjecture both graduate students and researchers will find inspiration in this volume

the eleven papers collected in this volume appeared in the bulletin of the ams during the years 1955 to 1984 and share the theme of the representation theory of locally compact groups and its numerous applications the papers provide a glimpse at the historical development of a subject which has expanded into many areas of mathematics during the past forty years in addition this volume provides easy access to a useful set of references chronicling some of the most important developments in papers by some of the field s major figures this book will appeal to specialists in representation theory as well as to researchers in those areas of mathematics in which representation theory plays an important role

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this book offers an introduction to the research in several recently discovered and actively developing mathematical and mathematical physics areas it focuses on 1 feynman integrals and modular functions 2 hyperbolic and lorentzian kac moody algebras related automorphic forms and applications to quantum gravity 3 superconformal indices and elliptic hypergeometric integrals related instanton partition functions 4 moonshine its arithmetic aspects jacobi forms elliptic genus and string theory and 5 theory and applications of the elliptic painleve equation and aspects of painleve equations in quantum field theories all the topics covered are related to various partition functions emerging in different supersymmetric and ordinary quantum field theories in curved space times of different d 2 3 6 dimensions presenting multidisciplinary methods localization borcherds products theory of special functions cremona maps etc for treating a range of partition functions the book is intended for graduate students and young postdocs interested in the interaction between quantum field theory and mathematics related to automorphic forms representation theory number theory and geometry and mirror symmetry

much has been written on the theory of discontinuous groups and automorphic functions since 1880 when the subject received its first formulation the purpose of this book is to bring together in one place both the classical and modern aspects of the theory and to present them clearly and in a modern language and notation the emphasis in this book is on the fundamental parts of the subject the book is directed to three classes of readers graduate students approaching the subject for the first time mature mathematicians who wish to gain some knowledge and understanding of automorphic function theory and experts

this book provides an introduction to some aspects of the analytic theory of automorphic forms on g sl2 r or the upper half plane x with respect to a discrete subgroup g of g of finite covolume the point of view is inspired by the theory of infinite dimensional unitary representations of g this is introduced in the last sections making this connection explicit the topics treated include the construction of fundamental domains the notion of automorphic form on g g and its relationship with the classical automorphic forms on x

poincare series constant terms cusp forms finite dimensionality of the space of automorphic forms of a given type compactness of certain convolution operators eisenstein series unitary representations of g and the spectral decomposition of l2 g g the main prerequisites are some results in functional analysis reviewed with references and some familiarity with the elementary theory of lie groups and lie algebras graduate students and researchers in analytic number theory will find much to interest them in this book

cohomology of arithmetic groups serves as a tool in studying possible relations between the theory of automorphic forms and the arithmetic of algebraic varieties resp the geometry of locally symmetric spaces these proceedings will serve as a guide to this still rapidly developing area of mathematics besides two survey articles the contributions are original research papers

multiple dirichlet series l functions and automorphic forms gives the latest advances in the rapidly developing subject of multiple dirichlet series an area with origins in the theory of automorphic forms that exhibits surprising and deep connections to crystal graphs and mathematical physics as such it represents a new way in which areas including number theory combinatorics statistical mechanics and quantum groups are seen to fit together the volume also includes papers on automorphic forms and l functions and related number theoretic topics this volume will be a valuable resource for graduate students and researchers in number theory combinatorics representation theory mathematical physics and special functions contributors j beineke b brubaker d bump g chinta g cornelissen c a diaconu s frechette s friedberg p garrett d goldfeld p e gunnells b heim j hundley d ivanov y komori a v kontorovich o lorscheid k matsumoto p j mcnamara s j patterson m suzuki h tsumura

this is volume 1 of a two volume book that provides a self contained introduction to the theory and application of automorphic forms using examples to illustrate several critical analytical concepts surrounding and supporting the theory of automorphic forms the two volume book treats three instances starting with some small unimodular examples followed by adelic gl2 and finally gln volume 1 features critical results which are proven carefully and in detail including discrete decomposition of cuspforms meromorphic continuation of eisenstein series spectral decomposition of pseudo eisenstein series and automorphic plancherel theorem volume 2 features automorphic green s functions metrics and topologies on natural function spaces unbounded operators vector valued integrals vector valued holomorphic functions and asymptotics with numerous proofs and extensive examples this classroom tested introductory text is meant for a second year or advanced graduate course in automorphic forms and also as a resource for researchers working in automorphic forms analytic number theory and related fields

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