Machematical Serveys and Monographs Volume 02

# Arithmeticity in the Theory of Automorphic Forms

Goro Shimura



American Mathematical Society

## **Arithmeticity In The Theory Of Automorphic Forms**

James W. Cogdell, Dihua Jiang, Stephen S. Kudla, David Soudry, Robert J. Stanton

#### **Arithmeticity In The Theory Of Automorphic Forms:**

Arithmeticity in the Theory of Automorphic Forms Goro Shimura, 2000 Written by one of the leading experts venerable grandmasters and most active contributors ldots in the arithmetic theory of automorphic forms ldots the new material included here is mainly the outcome of his extensive work ldots over the last eight years ldots a very careful detailed introduction to the subject ldots this monograph is an important comprehensively written and profound treatise on some recent achievements in the theory Zentralblatt MATH The main objects of study in this book are Eisenstein series and zeta functions associated with Hecke eigenforms on symplectic and unitary groups After preliminaries including a section Notation and Terminology the first part of the book deals with automorphic forms on such groups In particular their rationality over a number field is defined and discussed in connection with the group action also the reciprocity law for the values of automorphic functions at CM points is proved Next certain differential operators that raise the weight are investigated in higher dimension The notion of nearly holomorphic functions is introduced and their arithmeticity is defined As applications of these the arithmeticity of the critical values of zeta functions and Eisenstein series is proved Though the arithmeticity is given as the ultimate main result the book discusses many basic problems that arise in number theoretical investigations of automorphic forms but that cannot be found in expository forms Examples of this include the space of automorphic forms spanned by cusp forms and certain Eisenstein series transformation formulas of theta series estimate of the Fourier coefficients of modular forms and modular forms of half integral weight All these are treated in higher dimensional cases The volume concludes with an Appendix and an Index The book will be of interest to graduate students and researchers in the field of zeta functions and modular forms Arithmeticity in the Theory Goro Shimura, American Mathematical Society, 2014-06-29 The main objects of study in this book are Eisenstein series and zeta functions associated with Hecke eigenforms on symplectic and unitary groups After preliminaries including a section Notation and Terminology the first part of the book deals with automorphic forms on such groups In particular their rationality over a number field is defined and discussed in connection with the group action also the reciprocity law for the values of automorphic functions at CM points is proved Next certain differential operators that raise the weight are investigated in higher dimension. The notion of nearly holomorphic functions is introduced and their arithmeticity is defined As applications of these the arithmeticity of the critical values of zeta functions and Eisenstein series is proved Though the arithmeticity is given as the ultimate main result the book discusses many basic problems that arise in number theoretical investigations of automorphic forms but that cannot be found in expository forms Examples of this include the space of automorphic forms spanned by cusp forms and certain Eisenstein series transformation formulas of theta series estimate of the Fourier coeffici Arithmeticity in the Theory of Automorphic Forms Gorō Shimura, American Mathematical Society, 2000 The main objects of study in this book are Eisenstein series and zeta functions associated with Hecke eigenforms on symplectic and unitary groups After preliminaries

including a section Notation and Terminology the first part of the book deals with automorphic forms on such groups In particular their rationality over a number field is defined and discussed in connection with the group action also the reciprocity law for the values of automorphic functions at CM points is proved Next certain differential operators that raise the weight are investigated in higher dimension. The notion of nearly holomorphic functions is introduced and their arithmeticity is defined As applications of these the arithmeticity of the critical values of zeta functions and Eisenstein series is proved Though the arithmeticity is given as the ultimate main result the book discusses many basic problems that arise in number theoretical investigations of automorphic forms but that cannot be found in expository forms Examples of this include the space of automorphic forms spanned by cusp forms and certain Eisenstein series transformation formulas of theta series estimate of the Fourier coefficients of modular forms and modular forms of half integral weight All these are treated in higher dimensional cases The volume concludes with an Appendix and an Index The book will be of interest to graduate students and researchers in the field of zeta functions and modular forms Galois Theory and Modular Forms Ki-ichiro Hashimoto, Katsuya Miyake, Hiroaki Nakamura, 2013-12-01 This volume is an outgrowth of the research project The Inverse Ga lois Problem and its Application to Number Theory which was carried out in three academic years from 1999 to 2001 with the support of the Grant in Aid for Scientific Research B 1 No 11440013 In September 2001 an international conference Galois Theory and Modular Forms was held at Tokyo Metropolitan University after some preparatory work shops and symposia in previous years The title of this book came from that of the conference and the authors were participants of those meet All of the articles here were critically refereed by experts Some of ings these articles give well prepared surveys on branches of research areas and many articles aim to bear the latest research results accompanied with carefully written expository introductions. When we started our re earch project we picked up three areas to investigate under the key word Galois groups namely generic poly nomials to be applied to number theory Galois coverings of algebraic curves to study new type of representations of absolute Galois groups and explicitly described Shimura varieties to understand well the Galois structures of some interesting polynomials including Brumer's sextic for the alternating group of degree 5 The topics of the articles in this volume are widely spread as a result At a first glance some readers may think this book somewhat unfocussed

Automorphic Forms and \$L\$-functions II David Ginzburg,2009 This book is the second of two volumes which represent leading themes of current research in automorphic forms and representation theory of reductive groups over local fields Articles in this volume mainly represent global aspects of automorphic forms Among the topics are the trace formula functoriality representations of reductive groups over local fields the relative trace formula and periods of automorphic forms Rankin Selberg convolutions and L functions and p adic L functions The articles are written by leading researchers in the field and bring the reader advanced graduate students and researchers alike to the frontline of the vigorous research in these deep vital topics The companion volume Contemporary Mathematics Volume 488 is devoted to global aspects of automorphic

forms Harmonic Analysis, Group Representations, Automorphic Forms, and Invariant Theory Jian-Shu Li,2007 This volume carries the same title as that of an international conference held at the National University of Singapore 9 11 January 2006 on the occasion of Roger E Howe's 60th birthday Authored by leading members of the Lie theory community these contributions expanded from invited lectures given at the conference are a fitting tribute to the originality depth and influence of Howe's mathematical work. The range and diversity of the topics will appeal to a broad audience of research mathematicians and graduate students interested in symmetry and its profound applications Beyond \$mathrm {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 guaternionic 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

Elliptic Curves, Modular Forms and Iwasawa Theory David Loeffler, Sarah Livia Zerbes, 2017-01-15 Celebrating one of the leading figures in contemporary number theory John H Coates on the occasion of his 70th birthday this collection of contributions covers a range of topics in number theory concentrating on the arithmetic of elliptic curves modular forms and Galois representations Several of the contributions in this volume were presented at the conference Elliptic Curves Modular Forms and Iwasawa Theory held in honour of the 70th birthday of John Coates in Cambridge March 25 27 2015 The main unifying theme is Iwasawa theory a field that John Coates himself has done much to create This collection is indispensable reading for researchers in Iwasawa theory and is interesting and valuable for those in many related fields 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 Automorphic Representations, L-Functions and Applications: Progress and Prospects James W. periods and many more

Cogdell, Dihua Jiang, Stephen S. Kudla, David Soudry, Robert J. Stanton, 2011-06-24 This volume is the proceedings of the conference on Automorphic Representations L functions and Applications Progress and Prospects held at the Department of Mathematics of The Ohio State University March 27 30 2003 in honor of the 60th birthday of Steve Rallis The theory of automorphic representations automorphic L functions and their applications to arithmetic continues to be an area of vigorous and fruitful research The contributed papers in this volume represent many of the most recent developments and directions including Rankin Selberg L functions Bump Ginzburg Jiang Rallis Lapid Rallis the relative trace formula Jacquet Mao Rallis automorphic representations Gan Gurevich Ginzburg Rallis Soudry representation theory of p adic groups Baruch Kudla Rallis M glin Cogdell Piatetski Shapiro Shahidi p adic methods Harris Li Skinner Vigneras and arithmetic applications Chinta Friedberg Hoffstein The survey articles by Bump on the Rankin Selberg method and by Jacquet on the relative trace formula should be particularly useful as an introduction to the key ideas about these important topics This volume should be of interest both to researchers and students in the area of automorphic representations as well as to mathematicians in other areas interested in having an overview of current developments in this important field p-Adic Automorphic Forms on Shimura Varieties Haruzo Hida, 2012-12-06 In the early years of the 1980s while I was visiting the Institute for Ad vanced Study IAS at Princeton as a postdoctoral member I got a fascinating view studying congruence modulo a prime among elliptic modular forms that an automorphic L function of a given algebraic group G should have a canon ical p adic counterpart of several variables I immediately decided to find out the reason behind this phenomenon and to develop the theory of ordinary p adic automorphic forms allocating 10 to 15 years from that point putting off the intended arithmetic study of Shimura varieties via L functions and Eisenstein series for which I visited IAS Although it took more than 15 years we now know at least conjecturally the exact number of variables for a given G and it has been shown that this is a universal phenomenon valid for holomorphic automorphic forms on Shimura varieties and also for more general nonholomorphic cohomological automorphic forms on automorphic manifolds in a markedly different way When I was asked to give a series of lectures in the Automorphic Semester in the year 2000 at the Emile Borel Center Centre Emile Borel at the Poincare Institute in Paris I chose to give an exposition of the theory of p adic ordinary families of such automorphic forms p adic analytically de pending on their weights and this book is the outgrowth of the lectures given there **Introduction to Modern Number Theory** Yu. I. Manin, Alexei A. Panchishkin, 2006-03-30 This edition has been called startlingly up to date and in this corrected second printing you can be sure that it s even more contemporaneous It surveys from a unified point of view both the modern state and the trends of continuing development in various branches of number theory Illuminated by elementary problems the central ideas of modern theories are laid bare Some topics covered include non Abelian generalizations of class field theory recursive computability and Diophantine equations zeta and L functions This substantially revised and expanded new edition contains several new sections such as Wiles proof of Fermat's Last Theorem and relevant techniques coming from a synthesis of various theories 
The 1-2-3 of Modular Forms Jan Hendrik Bruinier, Gerard van der Geer, Günter Harder, Don Zagier, 2008-02-10 This book grew out of three series of lectures given at the summer school on Modular Forms and their Applications at the Sophus Lie Conference Center in Nordfjordeid in June 2004 The first series treats the classical one variable theory of elliptic modular forms The second series presents the theory of Hilbert modular forms in two variables and Hilbert modular surfaces The third series gives an introduction to Siegel modular forms and discusses a conjecture by Harder It also contains Harder's original manuscript with the conjecture Each part treats a number of beautiful applications

Arithmetic and Analytic Theories of Quadratic Forms and Clifford Groups Goro Shimura, 2014-05-27 In this book award winning author Goro Shimura treats new areas and presents relevant expository material in a clear and readable style Topics include Witt's theorem and the Hasse principle on quadratic forms algebraic theory of Clifford algebras spin groups and spin representations. He also includes some basic results not readily found elsewhere The two principle themes are 1 Quadratic Diophantine equations 2 Euler products and Eisenstein series on orthogonal groups and Clifford groups The starting point of the first theme is the result of Gauss that the number of primitive representations of an integer as the sum of three squares is essentially the class number of primitive binary quadratic forms Presented are a generalization of this fact for arbitrary quadratic forms over algebraic number fields and various applications. For the second theme the author proves the existence of the meromorphic continuation of a Euler product associated with a Hecke eigenform on a Clifford or an orthogonal group. The same is done for an Eisenstein series on such a group Beyond familiarity with algebraic number theory the book is mostly self contained Several standard facts are stated with references for detailed proofs Goro Shimura won the 1996 Steele Prize for Lifetime Achievement for his important and extensive work on arithmetical geometry and automorphic forms

Non-Archimedean L-Functions and Arithmetical Siegel Modular Forms Michel Courtieu, Alexei A. Panchishkin, 2003-12-09 This book now in its 2nd edition is devoted to the arithmetical theory of Siegel modular forms and their L functions The central object are L functions of classical Siegel modular forms whose special values are studied using the Rankin Selberg method and the action of certain differential operators on modular forms which have nice arithmetical properties A new method of p adic interpolation of these critical values is presented An important class of p adic L functions treated in the present book are p adic L functions of Siegel modular forms having logarithmic growth The given construction of these p adic L functions uses precise algebraic properties of the arithmetical Shimura differential operator The book will be very useful for postgraduate students and for non experts looking for a quick approach to a rapidly developing domain of algebraic number theory This new edition is substantially revised to account for the new explanations that have emerged in the past 10 years of the main formulas for special L values in terms of arithmetical theory of nearly holomorphic modular forms

<u>Yangians and Classical Lie Algebras</u> Alexander Molev,2007 The Yangians and twisted Yangians are remarkable associative algebras taking their origins from the work of St Petersburg s school of mathematical physics in the 1980s This

book is an introduction to the theory of Yangians and twisted Yangians with a particular emphasis on the relationship with the classical matrix Lie algebras 

The Ricci Flow: Techniques and Applications Bennett Chow, 2007 

The Classification of the Finite Simple Groups, Number 6 Daniel Gorenstein, Richard Lyons, Ronald Solomon, 1994 The classification of finite simple groups is a landmark result of modern mathematics This work presents critical aspects of the classification It provides the classification of finite simple groups of special odd type Theorems mathcal C \_2 and mathcal C \_3 It is suitable for graduate students and researchers interested in group theory 

The Classification of Quasithin Groups Michael Aschbacher, Stephen D. Smith, 2004 In around 1980 G Mason announced the classification of a subclass of an important class of finite simple groups known as quasithin groups In the main theorem of this two part work the authors provide a proof of a stronger theorem classifying a larger class of groups independently of Mason s research 

Arithmetic Differential Equations Alexandru Buium, 2005 For most of the book the only prerequisites are the basic facts of algebraic geometry and number theory BOOK JACKET

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