HARUZO HIDA

p-Adic Automorphic Forms on Shimura Varieties

Springer

Automorphic Forms Shimura Varieties

Armand Borel,W. Casselman,American Mathematical Society

Automorphic Forms Shimura Varieties:

Automorphic Forms, Shimura Varieties, and L-functions Laurent Clozel,J. S. Milne,1990 **Automorphic Forms and Shimura Varieties of PGSp (2)** Yuval Z. Flicker,2005 The area of automorphic representations is a natural continuation of studies in the 19th and 20th centuries on number theory and modular forms A guiding principle is a reciprocity law relating infinite dimensional automorphic representations with finite dimensional Galois representations Simple relations on the Galois side reflect deep relations on the automorphic side called OC liftings OCO This in depth book concentrates on an initial example of the lifting from a rank 2 symplectic group PGSp 2 to PGL 4 reflecting the natural embedding of Sp 2 in SL 4 It develops the technique of comparing twisted and stabilized trace formulae It gives a detailed classification of the automorphic and admissible representation of the rank two symplectic PGSp 2 by means of a definition of packets and quasi packets using character relations and trace formulae identities It also shows multiplicity one and rigidity theorems for the discrete spectrum Applications include the study of the decomposition of the cohomology of an associated Shimura variety thereby linking Galois representations to geometric automorphic representations To put these results in a general context the book concludes with a technical introduction to LanglandsOCO program in the area of automorphic representations It includes a proof of known cases of ArtinOCOs conjecture **p-Adic Automorphic Forms on Shimura Varieties** Haruzo Hida,2004-05-10 This book covers the following three topics in a manner accessible to graduate students who have an understanding of algebraic number theory and scheme theoretic algebraic geometry 1 An elementary construction of Shimura varieties as moduli of abelian schemes 2 p adic deformation theory of automorphic forms on Shimura varieties 3 A simple proof of irreducibility of the generalized Igusa tower over the Shimura variety The book starts with a detailed study of elliptic and Hilbert modular forms and reaches to the forefront of research of Shimura varieties associated with general classical groups The method of constructing p adic analytic families and the proof of irreducibility was recently discovered by the author The area covered in this book is now a focal point of research worldwide with many far reaching applications that have led to solutions of longstanding problems and conjectures Specifically the use of p adic elliptic and Hilbert modular forms have proven essential in recent breakthroughs in number theory for example the proof of Fermat s Last Theorem and the Shimura Taniyama conjecture by A Wiles and others Haruzo Hida is Professor of Mathematics at University of California Los Angeles His previous books include Modular Forms and Galois Cohomology Cambridge University Press 2000 and Geometric Modular Forms and Elliptic Curves World Scientific Publishing Company 2000 Automorphic Forms, Shimura Varieties, and L-functions James S. Milne,1990 *P-Adic Automorphic Forms on Shimura Varieties* Haruzo Hida,2004-05-10 **Topological Automorphic Forms** Mark Behrens,Tyler Lawson,2010-02-22 The authors apply a theorem of J Lurie to produce cohomology theories associated to certain Shimura varieties of type U 1 n 1 These cohomology theories of topological automorphic forms mathit TAF are related to Shimura varieties in the same way

that mathit TMF is related to the moduli space of elliptic curves **Shimura Varieties** Thomas Haines,Michael Harris,2020-02-20 This volume forms the sequel to On the stabilization of the trace formula published by International Press of Boston Inc 2011 **Classicality of Overconvergent Automorphic Forms on Some Shimura Varieties** Hans Christian Johansson,2013 **The Franke Filtration of the Spaces of Automorphic Forms on the Symplectic Group of Rank Two** Neven Grbac,2025-09-23 View the abstract *Motives* ,1994-02-28 Motives were introduced in the mid 1960s by Grothendieck to explain the analogies among the various cohomology theories for algebraic varieties to play the role of the missing rational cohomology and to provide a blueprint for proving Weil s conjectures about the zeta function of a variety over a finite field Over the last ten years or so researchers in various areas Hodge theory algebraic K theory polylogarithms automorphic forms L functions ell adic representations trigonometric sums and algebraic cycles have discovered that an enlarged and in part conjectural theory of mixed motives indicates and explains phenomena appearing in each area Thus the theory holds the potential of enriching and unifying these areas This is one of two volumes containing the revised texts of nearly all the lectures presented at the AMS IMS SIAM Joint Summer Research Conference on Motives held in Seattle in 1991 A number of related works are also included making for a total of forty seven papers from general introductions to specialized surveys to research papers **Motives** Uwe Jannsen,Jean-pierre Serre,Steven Kleiman,1994-02-28 Motives were introduced in the mid 1960s by Grothendieck to explain the analogies among the various cohomology theories for algebraic varieties to play the role of the missing rational cohomology and to provide a blueprint for proving Weil s conjectures about the zeta function of a variety over a finite field Over the last ten years or so researchers in various areas Hodge theory algebraic K theory polylogarithms automorphic forms L functions ell adic representations trigonometric sums and algebraic cycles have discovered that an enlarged and in part conjectural theory of mixed motives indicates and explains phenomena appearing in each area Thus the theory holds the potential of enriching and unifying these areas These two volumes contain the revised texts of nearly all the lectures presented at the AMS IMS SIAM Joint Summer Research Conference on Motives held in Seattle in 1991 A number of related works are also included making for a total of forty seven papers from general introductions to specialized surveys to research papers **Encyclopaedia of Mathematics** Michiel Hazewinkel,2012-12-06 This is the first Supplementary volume to Kluwer s highly acclaimed Encyclopaedia of Mathematics This additional volume contains nearly 600 new entries written by experts and covers developments and topics not included in the already published 10 volume set These entries have been arranged alphabetically throughout A detailed index is included in the book This Supplementary volume enhances the existing 10 volume set Together these eleven volumes represent the most authoritative comprehensive up to date Encyclopaedia of Mathematics available **Compactifications Of Pel-type Shimura Varieties And Kuga Families With Ordinary Loci** Kai-wen Lan,2017-07-21 This book is a comprehensive treatise on the partial toroidal and minimal compactifications of the ordinary loci of PEL type Shimura varieties and Kuga families and on the

canonical and subcanonical extensions of automorphic bundles The results in this book serve as the logical foundation of several recent developments in the theory of p adic automorphic forms and of the author s work with Harris Taylor and Thorne on the construction of Galois representations without any polarizability conditions which is a major breakthrough in the Langlands program This book is important for active researchers and graduate students who need to understand the above mentioned recent works and is written with such users of the theory in mind providing plenty of explanations and background materials which should be helpful for people working in similar areas It also contains precise internal and external references and an index of notation and terminologies These are useful for readers to quickly locate materials they need **Cohomology of Arithmetic Groups and Automorphic Forms** Jean-Pierre Labesse,Joachim Schwermer,1990 Expansions of talks given at the conference held May 1989 Marseilles France Topics include modular symbols Eisenstein series and cohomology finiteness theorems for ball lattices Hilbert modular forms Lefschetz numbers for arithmetic groups Annotation copyrighted by Book News Inc Portland OR <u>Proceedings Of The International Congress Of Mathematicians 2018 (Icm 2018) (In 4 Volumes)</u> Boyan Sirakov,Paulo Ney De Souza,Marcelo Viana,2019-02-27 The Proceedings of the ICM publishes the talks by invited speakers at the conference organized by the International Mathematical Union every 4 years It covers several areas of Mathematics and it includes the Fields Medal and Nevanlinna Gauss and Leelavati Prizes and the Chern Medal laudatios **The Reduction of Connected Shimura Varieties at Primes of Good Reduction** Matthias Pfau,1993 *Boundary Cohomology of Shimura Varieties, III* Michael Harris,Steven Zucker,2001 In this book the authors complete the verification of the following fact The nerve spectral sequence for the cohomology of the Borel Serre boundary of a Shimura variety mathrm Sh is a spectral sequence of mixed Hodge de Rham structures over the field of definition of its canonical model To achieve that they develop the machinery of automorphic vector bundles on mixed Shimura varieties for the latter enter in the boundary of the toroidal compactifications of mathrm Sh and study the nerve spectral sequence for the automorphic vector bundles and the toroidal boundary They also extend the technique of averting issues of base change by taking cohomology with growth conditions They give and apply formulas for the Hodge gradation of the cohomology of both mathrm Sh and its Borel Serre boundary **Automorphic Forms, Representations and L-Functions** Armand Borel,W. Casselman,American Mathematical Society,1979-06-30 Part 2 contains sections on Automorphic representations and L functions Arithmetical algebraic geometry and L functions *The Semi-simple Zeta Function of Quaternionic Shimura Varieties* Harry Reimann,1997-04-14 This monograph is concerned with the Shimura variety attached to a quaternion algebra over a totally real number field For any place of good or moderately bad reduction the corresponding semi simple local zeta function is expressed in terms of semi simple local L functions attached to automorphic representations In an appendix a conjecture of Langlands and Rapoport on the reduction of a Shimura variety in a very general case is restated in a slightly stronger form The reader is expected to be familiar with the basic concepts of algebraic geometry algebraic number theory

and the theory of automorphic representation **Vietnam Journal of Mathematics** ,1997

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