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p-Adic Automorphic Forms on Shimura Varieties

Springer

P Adic Automorphic Forms On Shimura Varieties

Laurent Clozel,J. S. Milne

P Adic Automorphic Forms On Shimura Varieties:

   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   **P-Adic Automorphic Forms on Shimura Varieties** Haruzo Hida,2004-05-10   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   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   Hilbert Modular Forms and Iwasawa Theory Haruzo Hida,2006-06-15 Describing the applications found for the Wiles and Taylor technique this book generalizes the deformation theoretic techniques of Wiles Taylor to Hilbert modular forms following Fujiwara s treatment and also discusses applications found by the author   **Automorphic Forms, Shimura Varieties, and L-functions** Laurent Clozel,J. S. Milne,1990   Automorphic Forms and Galois Representations Fred Diamond,Payman L. Kassaei,Minhyong Kim,2014-10-16 Part one of a two volume collection exploring recent developments in number theory related to automorphic forms and Galois representations   **Automorphic Forms 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 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   *Handbook of Homotopy Theory* Haynes Miller,2020-01-23 The Handbook of Homotopy Theory provides a panoramic view of an active area in mathematics that is currently seeing dramatic solutions to long standing open problems and is proving itself of increasing importance across many other mathematical disciplines The origins of the subject date back to work of Henri Poincar and Heinz Hopf in the early 20th century but it has seen enormous progress in the 21st century A highlight of this volume is an introduction to and diverse applications of the newly established foundational theory of categories The coverage is vast ranging from axiomatic to applied from foundational to computational and includes surveys of applications both geometric and algebraic The contributors are among the most active and creative researchers in the field The 22 chapters by 31 contributors are designed to address novices as well as established mathematicians interested in learning the state of the art in this field whose methods are of increasing importance in many other areas   **Geometric Aspects of Dwork Theory** Alan Adolphson,Francesco Baldassarri,Pierre Berthelot,Nicholas Katz,Francois Loeser,2008-08-22 This two volume book collects the lectures given during the three months cycle of lectures held in Northern Italy between May and July of 2001 to commemorate Professor Bernard Dwork 1923 1998 It presents a wide ranging overview of some of the most active areas of contemporary research in arithmetic algebraic geometry with special emphasis on the geometric applications of the p adic analytic techniques originating in Dwork s work their connection to various recent cohomology theories and to modular forms The two volumes contain both important new research and illuminating survey articles written by leading experts in the field The book will provide an indispensable resource for all those wishing to approach the frontiers of research in arithmetic algebraic geometry   Iwasawa Theory 2012 Thanasis Bouganis,Otmar Venjakob,2014-12-08 This is the fifth conference in a bi annual series following conferences in Besancon Limoges Irsee and Toronto The meeting aims to bring together different strands of research in and closely related to the area of Iwasawa theory During the week before the conference in a kind of summer school a series of preparatory lectures for young mathematicians was provided as an introduction to Iwasawa theory Iwasawa theory is a modern and powerful branch

of number theory and can be traced back to the Japanese mathematician Kenkichi Iwasawa who introduced the systematic study of Z_p extensions and p adic L functions concentrating on the case of ideal class groups Later this would be generalized to elliptic curves Over the last few decades considerable progress has been made in automorphic Iwasawa theory e g the proof of the Main Conjecture for GL 2 by Kato and Skinner Urban Techniques such as Hida s theory of p adic modular forms and big Galois representations play a crucial part Also a noncommutative Iwasawa theory of arbitrary p adic Lie extensions has been developed This volume aims to present a snapshot of the state of art of Iwasawa theory as of 2012 In particular it offers an introduction to Iwasawa theory based on a preparatory course by Chris Wuthrich and a survey of the proof of Skinner Urban based on a lecture course by Xin Wan *Automorphic Forms and Galois Representations: Volume 1* Fred Diamond,Payman L. Kassaei,Minhyong Kim,2014-10-16 Automorphic forms and Galois representations have played a central role in the development of modern number theory with the former coming to prominence via the celebrated Langlands program and Wiles proof of Fermat s Last Theorem This two volume collection arose from the 94th LMS EPSRC Durham Symposium on Automorphic Forms and Galois Representations in July 2011 the aim of which was to explore recent developments in this area The expository articles and research papers across the two volumes reflect recent interest in p adic methods in number theory and representation theory as well as recent progress on topics from anabelian geometry to p adic Hodge theory and the Langlands program The topics covered in volume one include the Shafarevich Conjecture effective local Langlands correspondence p adic L functions the fundamental lemma and other topics of contemporary interest

Automorphic Forms and Related Geometry: Assessing the Legacy of I.I. Piatetski-Shapiro James W. Cogdell,Freydoon Shahidi,David Soudry,2014-04-01 This volume contains the proceedings of the conference Automorphic Forms and Related Geometry Assessing the Legacy of I I Piatetski Shapiro held from April 23 27 2012 at Yale University New Haven CT Ilya I Piatetski Shapiro who passed away on 21 February 2009 was a leading figure in the theory of automorphic forms The conference attempted both to summarize and consolidate the progress that was made during Piatetski Shapiro s lifetime by him and a substantial group of his co workers and to promote future work by identifying fruitful directions of further investigation It was organized around several themes that reflected Piatetski Shapiro s main foci of work and that have promise for future development functoriality and converse theorems local and global functions and their periods adic functions and arithmetic geometry complex geometry and analytic number theory In each area there were talks to review the current state of affairs with special attention to Piatetski Shapiro s contributions and other talks to report on current work and to outline promising avenues for continued progress The contents of this volume reflect most of the talks that were presented at the conference as well as a few additional contributions They all represent various aspects of the legacy of Piatetski Shapiro _Iwasawa Theory and Its Perspective, Volume 2_ Tadashi Ochiai,2024-04-25 Iwasawa theory began in the late 1950s with a series of papers by Kenkichi Iwasawa on ideal class groups in the cyclotomic tower of number fields and

their relation to p adic L functions The theory was later generalized by putting it in the context of elliptic curves and modular forms The main motivation for writing this book was the need for a total perspective of Iwasawa theory that includes the new trends of generalized Iwasawa theory Another motivation is to update the classical theory for class groups taking into account the changed point of view on Iwasawa theory The goal of this second part of the three part publication is to explain various aspects of the cyclotomic Iwasawa theory of p adic Galois representations   On Certain L-Functions James Arthur,2011 Illuminate various areas of the study of geometric analytic and number theoretic aspects of automorphic forms and their L functions and both local and global theory are addressed Topics discussed in the articles include Langlands functoriality the Rankin Selberg method the Langlands Shahidi method motivic Galois groups Shimura varieties orbital integrals representations of p adic groups Plancherel formula and its consequences and the Gross Prasad conjecture   The semi-simple zeta function of quaternionic Shimura varieties Harry Reimann,2006-11-14 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

Elementary Modular Iwasawa Theory Haruzo Hida,2021-10-04 This book is the first to provide a comprehensive and elementary account of the new Iwasawa theory innovated via the deformation theory of modular forms and Galois representations The deformation theory of modular forms is developed by generalizing the cohomological approach discovered in the author s 2019 AMS Leroy P Steele Prize winning article without using much algebraic geometry Starting with a description of Iwasawa s classical results on his proof of the main conjecture under the Kummer Vandiver conjecture which proves cyclicity of his Iwasawa module more than just proving his main conjecture we describe a generalization of the method proving cyclicity to the adjoint Selmer group of every ordinary deformation of a two dimensional Artin Galois representation The fundamentals in the first five chapters are as follows Many open problems are presented to stimulate young researchers pursuing their field of study   Proceedings Of The International Congress Of Mathematicians 2010 (Icm 2010) (In 4 Volumes) - Vol. I: Plenary Lectures And Ceremonies, Vols. Ii-iv: Invited Lectures Rajendra Bhatia,Arup Pal,G Rangarajan,V Srinivas,M Vanninathan,2011-06-06 ICM 2010 proceedings comprises a four volume set containing articles based on plenary lectures and invited section lectures the Abel and Noether lectures as well as contributions based on lectures delivered by the recipients of the Fields Medal the Nevanlinna and Chern Prizes The first volume will also contain the speeches at the opening and closing ceremonies and other highlights of the Congress   *Directions in Number Theory* Ellen E. Eischen,Ling Long,Rachel Pries,Katherine E. Stange,2016-09-26 Exploring the interplay between deep theory and

intricate computation this volume is a compilation of research and survey papers in number theory written by members of the Women In Numbers WIN network principally by the collaborative research groups formed at Women In Numbers 3 a conference at the Banff International Research Station in Banff Alberta on April 21 25 2014 The papers span a wide range of research areas arithmetic geometry analytic number theory algebraic number theory and applications to coding and cryptography The WIN conference series began in 2008 with the aim of strengthening the research careers of female number theorists The series introduced a novel research mentorship model women at all career stages from graduate students to senior members of the community joined forces to work in focused research groups on cutting edge projects designed and led by experienced researchers The goals for Women In Numbers 3 were to establish ambitious new collaborations between women in number theory to train junior participants about topics of current importance and to continue to build a vibrant community of women in number theory Forty two women attended the WIN3 workshop including 15 senior and mid level faculty 15 junior faculty and postdocs and 12 graduate students   Proceedings of the International Congress of Mathematicians Rajendra Bhatia,Arup Pal,2010 ICM 2010 proceedings comprise a four volume set containing articles based on plenary lectures and invited section lectures the Abel and Noether lectures as well as contributions based on lectures delivered by the recipients of the Fields Medal the Nevanlinna and Chern Prizes The first volume will also contain the speeches at the opening and closing ceremonies and other highlights of the Congress

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