

Geometric Modular Forms and Elliptic Curves

2nd Edition



Haruzo Hida



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Geometric Modular Forms And Elliptic Curves

Henri Darmon



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Geometric Modular Forms and Elliptic Curves Haruzo Hida, 2012 1 An algebro geometric tool box 1 1 Sheaves 1 2 Schemes 1 3 Projective schemes 1 4 Categories and functors 1 5 Applications of the key lemma 1 6 Group schemes 1 7 Cartier duality 1 8 Quotients by a group scheme 1 9 Morphisms 1 10 Cohomology of coherent sheaves 1 11 Descent 1 12 Barsotti Tate groups 1 13 Formal scheme 2 Elliptic curves 2 1 Curves and divisors 2 2 Elliptic curves 2 3 Geometric modular forms of level 1 2 4 Elliptic curves over \mathbb{C} 2 5 Elliptic curves over p adic fields 2 6 Level structures 2 7 L functions of elliptic curves 2 8 Regularity 2 9 p ordinary moduli problems 2 10 Deformation of elliptic curves 3 Geometric modular forms 3 1 Integrality 3 2 Vertical control theorem 3 3 Action of GL_2 on modular forms 4 Jacobians and Galois representations 4 1 Jacobians of stable curves 4 2 Modular Galois representations 4 3 Fullness of big Galois representations 5 Modularity problems 5 1 Induced and extended Galois representations 5 2 Some other solutions 5 3 Modularity of Abelian Q varieties

Elliptic Curves and Arithmetic Invariants Haruzo Hida, 2013-06-13 This book contains a detailed account of the result of the author's recent Annals paper and JAMS paper on arithmetic invariant including invariant L invariant and similar topics This book can be regarded as an introductory text to the author's previous book p Adic Automorphic Forms on Shimura Varieties Written as a down to earth introduction to Shimura varieties this text includes many examples and applications of the theory that provide motivation for the reader Since it is limited to modular curves and the corresponding Shimura varieties this book is not only a great resource for experts in the field but it is also accessible to advanced graduate students studying number theory Key topics include non triviality of arithmetic invariants and special values of L functions elliptic curves over complex and p adic fields Hecke algebras scheme theory elliptic and modular curves over rings and Shimura curves

Hilbert Modular Forms and Iwasawa Theory Haruzo Hida, 2006-06-15 The 1995 work of Wiles and Taylor Wiles opened up a whole new technique in algebraic number theory and a decade on the waves caused by this incredibly important work are still being felt This book authored by a leading researcher describes the striking applications that have been found for this technique In the book the deformation theoretic techniques of Wiles Taylor are first generalized to Hilbert modular forms following Fujiwara's treatment and some applications found by the author are then discussed With many exercises and open questions given this text is ideal for researchers and graduate students entering this research area

Modular Forms and Galois Cohomology Haruzo Hida, 2000-06-29 Comprehensive account of recent developments in arithmetic theory of modular forms for graduates and researchers

p -adic Aspects Of Modular Forms Baskar Balasubramanyam, A Raghuram, Jacques Tilouine, Haruzo Hida, 2016-06-14 The aim of this book is to give a systematic exposition of results in some important cases where p adic families and p adic L functions are studied We first look at p adic families in the following cases general linear groups symplectic groups and definite unitary groups We also look at applications of this theory to modularity lifting problems We finally consider p adic L functions for GL_2 the p adic adjoint L

functions and some cases of higher GL n *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 *Elliptic Curves and Modular Forms in Algebraic Topology* Peter S. Landweber, 2014-01-15 **Automorphic Forms** Anton Deitmar, 2012-08-29 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 *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 **Topological Modular Forms** Christopher L. Douglas, John Francis, André G. Henriques, Michael A. Hill, 2014-12-04 The theory of topological modular forms is an intricate blend of classical algebraic modular forms and stable homotopy groups of spheres The construction of

this theory combines an algebro geometric perspective on elliptic curves over finite fields with techniques from algebraic topology particularly stable homotopy theory It has applications to and connections with manifold topology number theory and string theory This book provides a careful accessible introduction to topological modular forms After a brief history and an extended overview of the subject the book proper commences with an exposition of classical aspects of elliptic cohomology including background material on elliptic curves and modular forms a description of the moduli stack of elliptic curves an explanation of the exact functor theorem for constructing cohomology theories and an exploration of sheaves in stable homotopy theory There follows a treatment of more specialized topics including localization of spectra the deformation theory of formal groups and Goerss Hopkins obstruction theory for multiplicative structures on spectra The book then proceeds to more advanced material including discussions of the string orientation the sheaf of spectra on the moduli stack of elliptic curves the homotopy of topological modular forms and an extensive account of the construction of the spectrum of topological modular forms The book concludes with the three original pioneering and enormously influential manuscripts on the subject by Hopkins Miller and Mahowald

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

Elliptic Curves and Modular Forms in Algebraic Topology Peter S. Landweber, 2006-11-15 A small conference was held in September 1986 to discuss new applications of elliptic functions and modular forms in algebraic topology which had led to the introduction of elliptic genera and elliptic cohomology The resulting papers range from these topics through to quantum field theory with considerable attention to formal groups homology and cohomology theories and circle actions on spin manifolds Ed Witten's rich article on the index of the Dirac operator in loop space presents a mathematical treatment of his interpretation of elliptic genera in terms of quantum field theory A short introductory article gives an account of the growth of this area prior to the conference

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 Advanced 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 canonical 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 depending on their weights and this book is the outgrowth of the lectures given there

Recent Progress in Homotopy Theory Donald M. Davis, 2002 This volume presents the proceedings from the month long program held at Johns Hopkins University Baltimore MD on homotopy theory sponsored by the Japan U S Mathematics Institute JAMI The book begins with historical accounts on the work of Professors Peter Landweber and Stewart Priddy Central among the other topics are the following 1 classical and nonclassical theory of H spaces compact groups and finite groups 2 classical and chromatic homotopy theory and localization 3 classical and topological Hochschild cohomology 4 elliptic cohomology and its relation to Moonshine and topological modular forms and 5 motivic cohomology and Chow rings This volume surveys the current state of research in these areas and offers an overview of future directions

Rational Points on Modular Elliptic Curves Henri Darmon, 2004 The book surveys some recent developments in the arithmetic of modular elliptic curves It places a special emphasis on the construction of rational points on elliptic curves the Birch and Swinnerton Dyer conjecture and the crucial role played by modularity in shedding light on these two closely related issues The main theme of the book is the theory of complex multiplication Heegner points and some conjectural variants The first three chapters introduce the background and prerequisites elliptic curves modular forms and the Shimura Taniyama Weil conjecture complex multiplication and the Heegner point construction The next three chapters introduce variants of modular parametrizations in which modular curves are replaced by Shimura curves attached to certain indefinite quaternion algebras The main new contributions are found in Chapters 7 9 which survey the author's attempts to extend the theory of Heegner points and complex multiplication to situations where the base field is not a CM field Chapter 10 explains the proof of Kolyvagin's theorem which relates Heegner points to the arithmetic of elliptic curves and leads to the best evidence so far for the Birch and Swinnerton Dyer conjecture

Number Theory H. Kisilevsky, Eyal Zvi Goren, Canadian Number Theory Association. Conference, 2004 Collects articles from the meeting of the Canadian Number Theory Association held at the Centre de Recherches Mathematiques CRM at the University of Montreal This book covers topics such as algebraic number theory analytic number theory arithmetic algebraic geometry computational number theory and Diophantine analysis and approximation

The All-Encompassing Enigma Pasquale De Marco, 2025-04-09 In a world governed by intricate patterns

and hidden relationships symmetry and asymmetry dance together shaping the fabric of reality Embark on an intellectual adventure that unveils the profound interplay between these fundamental forces revealing their impact across diverse fields of human knowledge From the elegance of mathematical equations to the intricacies of physical laws from the beauty of art and music to the mysteries of life itself this book delves into the captivating world of symmetry and asymmetry Discover the hidden patterns and connections that permeate the universe gaining a deeper understanding of the cosmos and our place within it Explore the historical perspectives on symmetry and asymmetry tracing their evolution through the ages Unravel the mathematical foundations that underpin these concepts and witness their diverse manifestations in various scientific disciplines Investigate the role of symmetry in art music and aesthetics and delve into the philosophical implications of symmetry and asymmetry in our understanding of reality With captivating prose and thought provoking insights this book takes you on a journey through the realms of symmetry and asymmetry revealing their profound influence on our perception of the world Prepare to be amazed by the intricate patterns and hidden connections that shape our universe and gain a newfound appreciation for the delicate balance that underpins existence Discover the elegance of symmetry in the laws of physics the harmony of symmetry in art and music and the profound implications of symmetry and asymmetry in our understanding of the universe This book is an invitation to explore the deeper mysteries of reality unveiling the hidden connections that bind all things together In this captivating exploration you will gain a profound appreciation for the intricate dance between symmetry and asymmetry and the profound beauty that emerges from their interplay Prepare to embark on an intellectual adventure that will transform your understanding of the world and your place within it If you like this book write a review

Modular Forms and String Duality Noriko Yui, 2008 This book is a testimony to the BIRS Workshop and it covers a wide range of topics at the interface of number theory and string theory with special emphasis on modular forms and string duality They include the recent advances as well as introductory expositions on various aspects of modular forms motives differential equations conformal field theory topological strings and Gromov Witten invariants mirror symmetry and homological mirror symmetry The contributions are roughly divided into three categories arithmetic and modular forms geometric and differential equations and physics and string theory The book is suitable for researchers working at the interface of number theory and string theory **BOOK JACKET** **Modular Forms and String Duality** Noriko Yui, Helena Verrill, and Charles F. Doran, This book is a testimony to the BIRS Workshop and it covers a wide range of topics at the interface of number theory and string theory with special emphasis on modular forms and string duality They include the recent advances as well as introductory expositions on various aspects of modular forms motives differential equations conformal field theory topological strings and Gromov Witten invariants mirror symmetry and homological mirror symmetry The contributions are roughly divided into three categories arithmetic and modular forms geometric and differential equations and physics and string theory The book is suitable for researchers working at the interface of number theory and

string theory BOOK JACKET Fifth International Congress of Chinese Mathematicians Lizhen Ji, 2012 This two part volume represents the proceedings of the Fifth International Congress of Chinese Mathematicians held at Tsinghua University Beijing in December 2010 The Congress brought together eminent Chinese and overseas mathematicians to discuss the latest developments in pure and applied mathematics Included are 60 papers based on lectures given at the conference

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