

Lecture Notes in Mathematics

M. L. Brown

# Heegner Modules and Elliptic Curves

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# Heegner Modules And Elliptic Curves

**Henri Darmon, Shou-wu Zhang**



## **Heegner Modules And Elliptic Curves:**

**Heegner Modules and Elliptic Curves**, 2004     *Heegner Modules and Elliptic Curves* Martin L. Brown, 2004-08-30

Heegner points on both modular curves and elliptic curves over global fields of any characteristic form the topic of this research monograph. The Heegner module of an elliptic curve is an original concept introduced in this text. The computation of the cohomology of the Heegner module is the main technical result and is applied to prove the Tate conjecture for a class of elliptic surfaces over finite fields. This conjecture is equivalent to the Birch and Swinnerton-Dyer conjecture for the corresponding elliptic curves over global fields.

**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.

**Drinfeld Modules, Modular Schemes And Applications** M. Van Der Put, E.-U. Gekeler, M. Reversat, Jan Van

Geel, 1997-08-27. In his 1974 seminal paper "Elliptic modules," V. G. Drinfeld introduced objects into the arithmetic geometry of global function fields which are nowadays known as Drinfeld Modules. They have many beautiful analogies with elliptic curves and abelian varieties. The study of their moduli spaces leads, amongst others, to explicit class field theory, Jacquet-Langlands theory, and a proof of the Shimura-Taniyama-Weil conjecture for global function fields. This book constitutes a carefully written instructional course of 12 lectures on these subjects, including many recent novel insights and examples. The instructional part is complemented by research papers centering around class field theory, modular forms, and Heegner points in the theory of global function fields. The book will be indispensable for everyone who wants a clear view of Drinfeld's original work and wants to be informed about the present state of research in the theory of arithmetic geometry over function fields.

*Heegner Modules and Elliptic Curves* Martin L. Brown, 2004-07-15. Heegner points on both modular curves and elliptic curves over global fields of any characteristic form the topic of this research monograph. The Heegner module of an elliptic curve is an original concept introduced in this text. The computation of the cohomology of the Heegner module is the main technical result and is applied to prove the Tate conjecture for a class of elliptic surfaces over finite fields. This

conjecture is equivalent to the Birch and Swinnerton Dyer conjecture for the corresponding elliptic curves over global fields

**Heegner Points and Rankin L-Series** Henri Darmon, Shou-wu Zhang, 2004-06-21 The seminal formula of Gross and Zagier relating heights of Heegner points to derivatives of the associated Rankin L series has led to many generalisations and extensions in a variety of different directions spawning a fertile area of study that remains active to this day This volume based on a workshop on Special Values of Rankin L series held at the MSRI in December 2001 is a collection of thirteen articles written by many of the leading contributors in the field having the Gross Zagier formula and its avatars as a common unifying theme It serves as a valuable reference for mathematicians wishing to become further acquainted with the theory of complex multiplication automorphic forms the Rankin Selberg method arithmetic intersection theory Iwasawa theory and other topics related to the Gross Zagier formula *Arithmetic of L-functions* Cristian Popescu, Karl Rubin, Alice Silverberg,

**Elliptic Curves and Related Topics** H. Kisilevsky, Maruti Ram Murty, 1994-01-01 This book represents the proceedings of a workshop on elliptic curves held in St Adele Quebec in February 1992 Containing both expository and research articles on the theory of elliptic curves this collection covers a range of topics from Langlands s theory to the algebraic geometry of elliptic curves from Iwasawa theory to computational aspects of elliptic curves This book is especially significant in that it covers topics comprising the main ingredients in Andrew Wiles s recent result on Fermat s Last Theorem *The Computational and Theoretical Aspects of Elliptic Curves* Zhibin Liang, Chandrakant Aribam, 2019-05-22 This volume presents a collection of results related to the BSD conjecture based on the first two India China conferences on this topic It provides an overview of the conjecture and a few special cases where the conjecture is proved The broad theme of the two conferences was Theoretical and Computational Aspects of the Birch and Swinnerton Dyer Conjecture The first was held at Beijing International Centre for Mathematical Research BICMR in December 2014 and the second was held at the International Centre for Theoretical Sciences ICTS Bangalore India in December 2016 Providing a broad overview of the subject the book is a valuable resource for young researchers wishing to work in this area The articles have an extensive list of references to enable diligent researchers to gain an idea of the current state of art on this conjecture **Hypoelliptic**

**Estimates and Spectral Theory for Fokker-Planck Operators and Witten Laplacians** Francis Nier, Bernard Helffer, 2005-02-11 There has recently been a renewal of interest in Fokker Planck operators motivated by problems in statistical physics in kinetic equations and differential geometry Compared to more standard problems in the spectral theory of partial differential operators those operators are not self adjoint and only hypoelliptic The aim of the analysis is to give as generally as possible an accurate qualitative and quantitative description of the exponential return to the thermodynamical equilibrium While exploring and improving recent results in this direction this volume proposes a review of known techniques on the hypoellipticity of polynomial of vector fields and its global counterpart the global Weyl H rmander pseudo differential calculus the spectral theory of non self adjoint operators the semi classical analysis of Schr dinger type operators the Witten

complexes and the Morse inequalities      **Shafarevich-Tate Groups** M.L. Brown, 2025-03-13 This monograph explores the finiteness and structure of Shafarevich Tate groups of abelian varieties over global fields of any characteristic Readers will better understand how the methods of Euler systems and Kolyvagin systems can be adapted to Heegner points and CM points Also offered is a comprehensive overview of the most important classical and recent results on these objects Shafarevich Tate Groups will be a valuable resource to those interested in this active area of research      Euler Systems Karl Rubin, 2014-09-08 One of the most exciting new subjects in Algebraic Number Theory and Arithmetic Algebraic Geometry is the theory of Euler systems Euler systems are special collections of cohomology classes attached to  $p$ -adic Galois representations Introduced by Victor Kolyvagin in the late 1980s in order to bound Selmer groups attached to  $p$ -adic representations Euler systems have since been used to solve several key problems These include certain cases of the Birch and Swinnerton Dyer Conjecture and the Main Conjecture of Iwasawa Theory Because Selmer groups play a central role in Arithmetic Algebraic Geometry Euler systems should be a powerful tool in the future development of the field Here in the first book to appear on the subject Karl Rubin presents a self contained development of the theory of Euler systems Rubin first reviews and develops the necessary facts from Galois cohomology He then introduces Euler systems states the main theorems and develops examples and applications The remainder of the book is devoted to the proofs of the main theorems as well as some further speculations The book assumes a solid background in algebraic Number Theory and is suitable as an advanced graduate text As a research monograph it will also prove useful to number theorists and researchers in Arithmetic Algebraic Geometry      **Posn(R) and Eisenstein Series**, 2005      **Number Theory Related to Modular Curves** Joan-Carles Lario, V. Kumar Murty, 2018-01-29 This volume contains the proceedings of the Barcelona Boston Tokyo Number Theory Seminar which was held in memory of Fumiyuki Momose a distinguished number theorist from Chuo University in Tokyo Momose who was a student of Yasutaka Ihara made important contributions to the theory of Galois representations attached to modular forms rational points on elliptic and modular curves modularity of some families of Abelian varieties and applications of arithmetic geometry to cryptography Papers contained in this volume cover these general themes in addition to discussing Momose's contributions as well as recent work and new results      *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      **Statistical Learning Theory and Stochastic**

**Optimization** Olivier Catoni, 2004-08-30 Statistical learning theory is aimed at analyzing complex data with necessarily approximate models This book is intended for an audience with a graduate background in probability theory and statistics It will be useful to any reader wondering why it may be a good idea to use as is often done in practice a notoriously wrong i e over simplified model to predict estimate or classify This point of view takes its roots in three fields information theory statistical mechanics and PAC Bayesian theorems Results on the large deviations of trajectories of Markov chains with rare transitions are also included They are meant to provide a better understanding of stochastic optimization algorithms of common use in computing estimators The author focuses on non asymptotic bounds of the statistical risk allowing one to choose adaptively between rich and structured families of models and corresponding estimators Two mathematical objects pervade the book entropy and Gibbs measures The goal is to show how to turn them into versatile and efficient technical tools that will stimulate further studies and results

**Abstract Harmonic Analysis of Continuous Wavelet Transforms**

Hartmut Führ, 2005-01-17 This volume contains a systematic discussion of wavelet type inversion formulae based on group representations and their close connection to the Plancherel formula for locally compact groups The connection is demonstrated by the discussion of a toy example and then employed for two purposes Mathematically it serves as a powerful tool yielding existence results and criteria for inversion formulae which generalize many of the known results Moreover the connection provides the starting point for a reasonably self contained exposition of Plancherel theory Therefore the volume can also be read as a problem driven introduction to the Plancherel formula

**Encyclopaedia of Mathematics**

Michiel Hazewinkel, 2012-12-06 This is the second supplementary volume to Kluwer s highly acclaimed eleven volume Encyclopaedia of Mathematics This additional volume contains nearly 500 new entries written by experts and covers developments and topics not included in the previous volumes These entries are arranged alphabetically throughout and a detailed index is included This supplementary volume enhances the existing eleven volumes and together these twelve volumes represent the most authoritative comprehensive and up to date Encyclopaedia of Mathematics available

**Arithmetic Geometry**

Clay Mathematics Institute. Summer School, 2009 Based on survey lectures given at the 2006 Clay Summer School on Arithmetic Geometry at the Mathematics Institute of the University of Gottingen this tile is intended for graduate students and recent PhD s It introduces readers to modern techniques and conjectures at the interface of number theory and algebraic geometry

**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

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