

# Euler Systems

BY

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# Euler Systems Annals Of Mathematics

**Tadashi Ochiai**



## **Euler Systems Annals Of Mathematics:**

**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 *Annals of Mathematics*, 1927 Founded in 1884 Annals of Mathematics publishes research papers in pure mathematics **Arithmetic of L-functions** Cristian Popescu, Karl Rubin, Alice Silverberg,

**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 **Annals of**

**Mathematics Studies** Karl Rubin, 1940 *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 **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  $\mathbb{Z}_p$  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

**Stark's Conjectures: Recent Work and New Directions** David Burns, 2004 *Arithmetic Theory of Elliptic Curves* J. Coates, R. Greenberg, K.A. Ribet, K. Rubin, 1999-10-19 This volume contains the expanded versions of the lectures given by the authors at the C I M E instructional conference held in Cetraro Italy from July 12 to 19 1997 The papers collected here are broad surveys of the current research in the arithmetic of elliptic curves and also contain several new results which cannot be found elsewhere in the literature Owing to clarity and elegance of exposition and to the background material explicitly included in the text or quoted in the references the volume is well suited to research students as well as to senior mathematicians

*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

*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

**Cyclotomic Fields and Zeta Values** John Coates, R. Sujatha, 2006-10-03

Cyclotomic fields have always occupied a central place in number theory and the so called main conjecture on cyclotomic fields is arguably the deepest and most beautiful theorem known about them It is also the simplest example of a vast array of subsequent unproven main conjectures in modern arithmetic geometry involving the arithmetic behaviour of motives over  $p$  adic Lie extensions of number fields These main conjectures are concerned with what one might loosely call the exact formulae of number theory which conjecturally link the special values of zeta and L functions to purely arithmetic expressions Written by two leading workers in the field this short and elegant book presents in full detail the simplest proof of the main conjecture for cyclotomic fields Its motivation stems not only from the inherent beauty of the subject but also from the wider arithmetic interest of these questions The masterly exposition is intended to be accessible to both graduate students and non experts in Iwasawa theory

**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  $n$

*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

*Elliptic Curves* Dale Husemöller, 2006-06-06 There are three new appendices one by Stefan Theisen on the role of Calabi Yau manifolds in string theory and one by Otto Forster on the use of elliptic curves in computing theory and coding theory In the third appendix we discuss the role of elliptic curves in homotopy theory In these three introductions the reader can get a clue to the far reaching implications of the theory of elliptic curves in mathematical sciences During the production of this edition the ICM 2002 manuscript of Mike Hopkins became available This report outlines the role of elliptic curves in homotopy theory Elliptic curves appear in the form of the Weierstrass equation and its related changes of variable The equations and the changes of variable are coded in an algebraic structure called a Hopf algebroid and this Hopf algebroid is related to a cohomology theory called topological modular forms Hopkins and his coworkers have used this theory in several directions one being the explanation of elements in stable homotopy up to degree 60 In the third appendix we explain how what we described in Chapter 3 leads to the Weierstrass Hopf algebroid making a link with Hopkins paper

**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 *Iwasawa Theory and Its Perspective, Volume 1* Tadashi Ochiai,2023-05-03 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 of this book is an update of the classical theory for class groups taking into account the changed point of view on Iwasawa theory The goal of this first part of the two part publication is to explain the theory of ideal class groups including its algebraic aspect the Iwasawa class number formula its analytic aspect Leopoldt Kubota L functions and the Iwasawa main conjecture which is a bridge between the algebraic and the analytic aspects The second part of the book will be published as a separate volume in the same series Mathematical Surveys and Monographs of the American Mathematical Society *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 [A New Approach to Differential Geometry using Clifford's Geometric Algebra](#) John Snugg,2011-12-09 Differential geometry is the study of the curvature and calculus of curves and surfaces A New Approach to Differential Geometry using Clifford s Geometric Algebra simplifies the discussion to an accessible level of differential geometry by introducing Clifford algebra This presentation is relevant because Clifford algebra is an effective tool for dealing with the rotations intrinsic to the study of curved space Complete with chapter by chapter exercises an overview of general relativity and brief biographies of historical figures this comprehensive textbook presents a valuable introduction to differential geometry It will serve as a useful resource for upper level undergraduates beginning level graduate students and researchers in the algebra and physics communities *Numerical Control: Part A* ,2022-02-15 Numerical Control Part A Volume 23 in the Handbook of Numerical Analysis series highlights new advances in the field with this new volume presenting interesting chapters written by an international board of authors Chapters in this volume include Numerics for finite dimensional control systems Moments and convex optimization for analysis and control of nonlinear PDEs The turnpike property in optimal control Structure Preserving Numerical Schemes for Hamiltonian Dynamics Optimal Control of PDEs and FE Approximation Filtration techniques for the uniform controllability of semi discrete hyperbolic equations Numerical controllability properties of fractional partial differential equations Optimal Control

Numerics and Applications of Fractional PDEs and much more Provides the authority and expertise of leading contributors from an international board of authors Presents the latest release in the Handbook of Numerical Analysis series Updated release includes the latest information on Numerical Control

Euler Systems Annals Of Mathematics: Bestsellers in 2023 The year 2023 has witnessed a remarkable surge in literary brilliance, with numerous captivating novels enthralling the hearts of readers worldwide. Lets delve into the realm of popular books, exploring the engaging narratives that have enthralled audiences this year. The Must-Read : Colleen Hoover's "It Ends with Us" This heartfelt tale of love, loss, and resilience has captivated readers with its raw and emotional exploration of domestic abuse. Hoover skillfully weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can triumph. Uncover the Best : Taylor Jenkins Reid's "The Seven Husbands of Evelyn Hugo" This intriguing historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reid's compelling storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Euler Systems Annals Of Mathematics : Delia Owens' "Where the Crawdads Sing" This captivating coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens spins a tale of resilience, survival, and the transformative power of nature, captivating readers with its evocative prose and mesmerizing setting. These top-selling novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of engaging stories waiting to be discovered. The novel begins with Richard Papen, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts. The Secret History is a exceptional and suspenseful novel that will keep you wondering until the very end. The novel is a cautionary tale about the dangers of obsession and the power of evil.

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