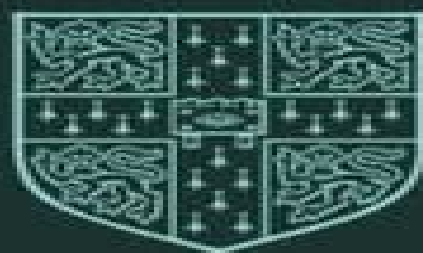


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ELLIPTIC CURVES

Function Theory, Geometry, Arithmetic

FOREWORD BY ALEX KASMAN



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Elliptic Curves Function Theory Geometry Arithmetic

R. V. Gurjar



Elliptic Curves Function Theory Geometry Arithmetic:

Elliptic Curves Henry McKean, Victor Moll, Victor H. Moll, 1999-08-13 The subject of elliptic curves is one of the jewels of nineteenth century mathematics originated by Abel Gauss Jacobi and Legendre This 1997 book presents an introductory account of the subject in the style of the original discoverers with references to and comments about more recent and modern developments It combines three of the fundamental themes of mathematics complex function theory geometry and arithmetic After an informal preparatory chapter the book follows an historical path beginning with the work of Abel and Gauss on elliptic integrals and elliptic functions This is followed by chapters on theta functions modular groups and modular functions the quintic the imaginary quadratic field and on elliptic curves Requiring only a first acquaintance with complex function theory this book is an ideal introduction to the subject for graduate students and researchers in mathematics and physics with many exercises with hints scattered throughout the text

Elliptic Curves, Modular Forms, and Their L-functions Álvaro Lozano-Robledo, 2011 Many problems in number theory have simple statements but their solutions require a deep understanding of algebra algebraic geometry complex analysis group representations or a combination of all four The original simply stated problem can be obscured in the depth of the theory developed to understand it This book is an introduction to some of these problems and an overview of the theories used nowadays to attack them presented so that the number theory is always at the forefront of the discussion Lozano Robledo gives an introductory survey of elliptic curves modular forms and L functions His main goal is to provide the reader with the big picture of the surprising connections among these three families of mathematical objects and their meaning for number theory As a case in point Lozano Robledo explains the modularity theorem and its famous consequence Fermat's Last Theorem He also discusses the Birch and Swinnerton Dyer Conjecture and other modern conjectures The book begins with some motivating problems and includes numerous concrete examples throughout the text often involving actual numbers such as $\frac{3}{4}$, $\frac{5}{3344161747348}$ and $\frac{2244035177043369699245575130906674863160948472041}{8912332268928859588025535178967163570016480830}$ The theories of elliptic curves modular forms and L functions are too vast to be covered in a single volume and their proofs are outside the scope of the undergraduate curriculum However the primary objects of study the statements of the main theorems and their corollaries are within the grasp of advanced undergraduates This book concentrates on motivating the definitions explaining the statements of the theorems and conjectures making connections and providing lots of examples rather than dwelling on the hard proofs The book succeeds if after reading the text students feel compelled to study elliptic curves and modular forms in all their glory

The Arithmetic of Elliptic Curves Joseph H. Silverman, 2009-05-29 The theory of elliptic curves is distinguished by its long history and by the diversity of the methods that have been used in its study This book treats the arithmetic approach in its modern formulation through the use of basic algebraic number theory and algebraic geometry Following a brief discussion of the necessary algebro geometric results the book proceeds with an

exposition of the geometry and the formal group of elliptic curves elliptic curves over finite fields the complex numbers local fields and global fields Final chapters deal with integral and rational points including Siegel's theorem and explicit computations for the curve $y^2 = x^3 + dx$ while three appendices conclude the whole Elliptic Curves in Characteristics 2 and 3 Group Cohomology and an overview of more advanced topics

Elliptic Functions and Elliptic Integrals Viktor Vasil'evich Prasolov, I. Uri Pavlovich Solov'ev, 1997-09-16 This book is devoted to the geometry and arithmetic of elliptic curves and to elliptic functions with applications to algebra and number theory It includes modern interpretations of some famous classical algebraic theorems such as Abel's theorem on the lemniscate and Hermite's solution of the fifth degree equation by means of theta functions Suitable as a text the book is self contained and assumes as prerequisites only the standard one year courses of algebra and analysis

Using the Mathematics Literature Kristine K. Fowler, 2004-05-25 This reference serves as a reader friendly guide to every basic tool and skill required in the mathematical library and helps mathematicians find resources in any format in the mathematics literature It lists a wide range of standard texts journals review articles newsgroups and Internet and database tools for every major subfield in mathematics

Elliptic Curves Anthony W. Knap, 2018-06-05 An elliptic curve is a particular kind of cubic equation in two variables whose projective solutions form a group Modular forms are analytic functions in the upper half plane with certain transformation laws and growth properties The two subjects elliptic curves and modular forms come together in Eichler Shimura theory which constructs elliptic curves out of modular forms of a special kind The converse that all rational elliptic curves arise this way is called the Taniyama Weil Conjecture and is known to imply Fermat's Last Theorem Elliptic curves and the modular forms in the Eichler Shimura theory both have associated L functions and it is a consequence of the theory that the two kinds of L functions match The theory covered by Anthony Knap in this book is therefore a window into a broad expanse of mathematics including class field theory arithmetic algebraic geometry and group representations in which the coincidence of L functions relates analysis and algebra in the most fundamental ways Developing with many examples the elementary theory of elliptic curves the book goes on to the subject of modular forms and the first connections with elliptic curves The last two chapters concern Eichler Shimura theory which establishes a much deeper relationship between the two subjects No other book in print treats the basic theory of elliptic curves with only undergraduate mathematics and no other explains Eichler Shimura theory in such an accessible manner

Advanced Topics in the Arithmetic of Elliptic Curves Joseph H. Silverman, 2013-12-01 In the introduction to the first volume of *The Arithmetic of Elliptic Curves* Springer Verlag 1986 I observed that the theory of elliptic curves is rich varied and amazingly vast and as a consequence many important topics had to be omitted I included a brief introduction to ten additional topics as an appendix to the first volume with the tacit understanding that eventually there might be a second volume containing the details You are now holding that second volume it turned out that even those ten topics would not fit Unfortunately into a single book so I was forced to make some

choices The following material is covered in this book I Elliptic and modular functions for the full modular group II Elliptic curves with complex multiplication III Elliptic surfaces and specialization theorems IV Neron models Kodaira Neron classification of special fibers Tate's algorithm and Ogg's conductor discriminant formula V Tate's theory of q curves over p -adic fields VI Neron's theory of canonical local height functions Symbolic Computation, Number Theory, Special Functions, Physics and Combinatorics Frank G. Garvan, Mourad E.H. Ismail, 2013-12-01 These are the proceedings of the conference Symbolic Computation Number Theory Special Functions Physics and Combinatorics held at the Department of Mathematics University of Florida Gainesville from November 11 to 13 1999 The main emphasis of the conference was Computer Algebra i.e. symbolic computation and how it related to the fields of Number Theory Special Functions Physics and Combinatorics A subject that is common to all of these fields is q series We brought together those who do symbolic computation with q series and those who need q series in cluding workers in Physics and Combinatorics The goal of the conference was to inform mathematicians and physicists who use q series of the latest developments in the field of q series and especially how symbolic computa tion has aided these developments Over 60 people were invited to participate in the conference We ended up having 45 participants at the conference including six one hour plenary speakers and 28 half hour speakers There were talks in all the areas we were hoping for There were three software demonstrations Handbook of the History and Philosophy of Mathematical Practice Bharath Sriraman, 2024-04-26 The purpose of this unique handbook is to examine the transformation of the philosophy of mathematics from its origins in the history of mathematical practice to the present It aims to synthesize what is known and what has unfolded so far as well as to explore directions in which the study of the philosophy of mathematics as evident in increasingly diverse mathematical practices is headed Each section offers insights into the origins debates methodologies and newer perspectives that characterize the discipline today Contributions are written by scholars from mathematics history and philosophy as well as other disciplines that have contributed to the richness of perspectives abundant in the study of philosophy today who describe various mathematical practices throughout different time periods and contrast them with the development of philosophy Editorial Advisory Board Andrew Aberdein Florida Institute of Technology USA Jody Azzouni Tufts University USA Ot vio Bueno University of Miami USA William Byers Concordia University Canada Carlo Cellucci Sapienza University of Rome Italy Chandler Davis University of Toronto Canada 1926 2022 Paul Ernest University of Exeter UK Michele Friend George Washington University USA Reuben Hersch University of New Mexico USA 1927 2020 Kyeong Hwa Lee Seoul National University South Korea Yuri Manin Max Planck Institute for Mathematics Germany 1937 2023 Athanase Papadopoulos University of Strasbourg France Ulf Persson Chalmers University of Technology Sweden John Stillwell University of San Francisco USA David Tall University of Warwick UK 1941 2024 This book with its exciting depth and breadth illuminates us about the history practice and the very language of our subject about the role of abstraction of proof and manners of proof about the interplay of fundamental intuitions about algebraic thought in

contrast to geometric thought The richness of mathematics and the philosophy encompassing it is splendidly exhibited over the wide range of time these volumes cover from deep platonic and neoplatonic influences to the most current experimental approaches Enriched as well with vivid biographies and brilliant personal essays written by and about people who play an important role in our tradition this extraordinary collection of essays is fittingly dedicated to the memory of Chandler Davis Reuben Hersh and Yuri Manin Barry Mazur Gerhard Gade University Professor Harvard University This encyclopedic Handbook will be a treat for all those interested in the history and philosophy of mathematics Whether one is interested in individuals from Pythagoras through Newton and Leibniz to Grothendieck fields geometry algebra number theory logic probability analysis viewpoints from Platonism to Intuitionism or methods proof experiment computer assistance the reader will find a multitude of chapters that inform and fascinate John Stillwell Emeritus Professor of Mathematics University of San Francisco Recipient of the 2005 Chauvenet Prize Dedicating a volume to the memory of three mathematicians Chandler Davis Reuben Hersh and Yuri Manin who went out of their way to show to a broader audience that mathematics is more than what they might think is an excellent initiative Gathering authors coming from many different backgrounds but who are very strict about the essays they write was successfully achieved by the editor in chief The result a great source of potential inspiration Jean Pierre Bourguignon Nicolaas Kuiper Honorary Professor at the Institut des Hautes tudes Scientifiques

Algorithmic Number Theory Duncan Buell, 2004-06 This book constitutes the refereed proceedings of the 6th International Algorithmic Number Theory Symposium ANTS 2004 held in Burlington VT USA in June 2004 The 30 revised full papers presented together with 3 invited papers were carefully reviewed and selected for inclusion in the book Among the topics addressed are zeta functions elliptic curves hyperelliptic curves GCD algorithms number field computations complexity primality testing Weil and Tate pairings cryptographic algorithms function field sieve algebraic function field mapping quartic fields cubic number fields lattices discrete logarithms and public key cryptosystems [Elliptic Curves and Their Arithmetic Geometry](#) Mr. Rohit Manglik, 2024-07-28 EduGorilla Publication is a trusted name in the education sector committed to empowering learners with high quality study materials and resources Specializing in competitive exams and academic support EduGorilla provides comprehensive and well structured content tailored to meet the needs of students across various streams and levels [Introduction to Elliptic Curves and Modular Forms](#) Neal I. Koblitz, 2012-12-06 This textbook covers the basic properties of elliptic curves and modular forms with emphasis on certain connections with number theory The ancient congruent number problem is the central motivating example for most of the book My purpose is to make the subject accessible to those who find it hard to read more advanced or more algebraically oriented treatments At the same time I want to introduce topics which are at the forefront of current research Down to earth examples are given in the text and exercises with the aim of making the material readable and interesting to mathematicians in fields far removed from the subject of the book With numerous exercises and answers included the textbook is also intended for graduate students who

have completed the standard first year courses in real and complex analysis and algebra Such students would learn applications of techniques from those courses thereby solidifying their understanding of some basic tools used throughout mathematics Graduate students wanting to work in number theory or algebraic geometry would get a motivational example oriented introduction In addition advanced undergraduates could use the book for independent study projects senior theses and seminar work

Introduction to Elliptic Curves and Modular Forms N. Koblitz, 2012-12-06 This textbook covers the basic properties of elliptic curves and modular forms with emphasis on certain connections with number theory The ancient congruent number problem is the central motivating example for most of the book My purpose is to make the subject accessible to those who find it hard to read more advanced or more algebraically oriented treatments At the same time I want to introduce topics which are at the forefront of current research Down to earth examples are given in the text and exercises with the aim of making the material readable and interesting to mathematicians in fields far removed from the subject of the book With numerous exercises and answers included the textbook is also intended for graduate students who have completed the standard first year courses in real and complex analysis and algebra Such students would learn applications of techniques from those courses thereby solidifying their understanding of some basic tools used throughout mathematics Graduate students wanting to work in number theory or algebraic geometry would get a motivational example oriented introduction In addition advanced undergraduates could use the book for independent study projects senior theses and seminar work

Modular Forms and Fermat's Last Theorem Gary Cornell, Joseph H. Silverman, Glenn Stevens, 1997 A collection of expanded versions of lectures given at an instructional conference on number theory and arithmetic geometry held at Boston University The purpose of the conference and indeed this book is to introduce and explain the many ideas and techniques used by Wiles in his proof and to explain how his result can be combined with Ribet's theorem and ideas of Frey and Serre to show at long last that Fermat's Last Theorem is true The book begins with an overview of the complete proof theory of elliptic curves modular functions modular curves Galois cohomology and finite group schemes In recognition of the historical significance of Fermat's Last Theorem the volume concludes by reflecting on the history of the problem while placing Wiles theorem into a more general Diophantine context suggesting future applications

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 *Elliptic Curves* Henry McKean, 1997 *Higher Regulators, Algebraic K-Theory, and Zeta Functions of Elliptic Curves* Spencer J. Bloch, 2011 This book is the long awaited publication of the famous Irvine lectures Delivered in 1978 at the University of California at Irvine these lectures turned out to be an entry point to several intimately connected new branches of arithmetic algebraic geometry such as regulators and special values of L functions of algebraic varieties explicit formulas for them in terms of polylogarithms the theory of algebraic cycles and eventually the general theory of mixed motives which unifies and underlies all of the above and much more In the 20 years since the importance of Bloch's lectures has not diminished A lucky group of people working in the above areas had the good fortune to possess a copy of old typewritten notes of these lectures Now everyone can have their own copy of this classic work Titles in this series are co published with the Centre de Recherches Mathématiques Elliptic Functions and Elliptic Integrals Viktor Vasil'evich Prasolov, 1997 This book is devoted to the geometry and arithmetic of elliptic curves and to elliptic functions with applications to algebra and number theory It includes modern interpretations of some famous classical algebraic theorems such as Abel's theorem on the lemniscate and Hermite's solution of the fifth degree equation by means of theta functions Suitable as a text the book is self contained and assumes as prerequisites only the standard one year courses of algebra and analysis *Arithmetic Geometry* Nancy Childress, John W. Jones, 1994 This book resulted from a research conference in arithmetic geometry held at Arizona State University in March 1993 The papers describe important recent advances in arithmetic geometry Several articles deal with p-adic modular forms of half integral weight and their roles in arithmetic geometry The volume also contains material on the Iwasawa theory of cyclotomic fields elliptic curves and function fields including p-adic L functions and p-adic height pairings Other articles focus on the inverse Galois problem fields of definition of abelian varieties with real multiplication and computation of torsion groups of elliptic curves The volume also contains a previously unpublished letter of John Tate written to J P Serre in 1973 concerning Serre's conjecture on Galois representations With contributions by some of the leading experts in the field this book provides a look at the state of the art in arithmetic geometry Elliptic Curves R. V. Gurjar, 2006 These notes constitute a lucid introduction to Elliptic Curves one of the central and vigorous areas of current mathematical research The subject has been studied from diverse viewpoints analytic algebraic and arithmetical These notes offer the reader glimpses of all three aspects and present some of the basic important theorems in all of them The first part introduces a little of the theory of Riemann surfaces and goes on to the study of tori and their projective embeddings as cubics This part ends with a discussion of the identification of the moduli space of complex tori with the quotient of the upper half plane by the modular groups The second part handles the algebraic geometry of elliptic curves It begins with a rapid introduction to some basic algebraic geometry and then focuses on elliptic curves The Riemann-Roch theorem and the Riemann hypothesis for elliptic curves are proved and the structure of the endomorphism ring of an elliptic curve is described The third and last part is on

the arithmetic of elliptic curves over \mathbb{Q} The Mordell Weil theorem Mazur's theorem on torsion in rational points of an elliptic curve over \mathbb{Q} and theorems of Thue and Siegel are among the results which are presented There is a brief discussion of theta functions Eisenstein series and cusp forms with an application to representation of natural numbers as sums of squares The notes end with the formulation of the Birch and Swinnerton Dyer conjectures There is an additional brief chapter Appendix C written in July 2004 by Kirti Joshi describing some developments since the original notes were written up in the present form in 1992

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