

Benedict H. Gross

Arithmetic on Elliptic Curves with Complex Multiplication

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Arithmetic On Elliptic Curves With Complex Multiplication Lecture Notes In Mathematics

Arturo Cuomo



Arithmetic On Elliptic Curves With Complex Multiplication Lecture Notes In Mathematics:

Arithmetic on Elliptic Curves with Complex Multiplication B.H. Gross, 2006-11-14 *Arithmetic on Elliptic Curves with Complex Multiplication* B. H. Gross, 2014-09-01 *The Arithmetic of Elliptic Curves* Joseph H. Silverman, 2009-04-20 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 *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 **Integral Geometry, Radon Transforms and Complex Analysis** Carlos A. Berenstein, Peter F. Ebenfelt, Simon Gindikin, Sigurdur Helgason, Alexander Tumanov, 2006-11-14 This book contains the notes of five short courses delivered at the Centro Internazionale Matematico Estivo session Integral Geometry Radon Transforms and Complex Analysis held in Venice Italy in June 1996 three of them deal with various aspects of integral geometry with a common emphasis on several kinds of Radon transforms their properties and applications the other two share a stress on CR manifolds and related problems All lectures are accessible to a wide audience and provide self contained introductions and short surveys on the subjects as well as detailed expositions of selected results *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

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Noncommutative Geometry Igor V. Nikolaev, 2022-07-18 Noncommutative geometry studies an interplay between spatial forms and algebras with non commutative multiplication This book covers the key concepts of noncommutative geometry and its applications in topology algebraic geometry and number theory Our presentation is accessible to the graduate students as well as nonexperts in the field The second edition includes two new chapters on arithmetic topology and quantum arithmetic

Arithmetic and Geometry of K3 Surfaces and Calabi-Yau Threefolds Radu Laza, Matthias Schütt, Noriko Yui, 2013-06-12 In recent years research in K3 surfaces and Calabi Yau varieties has seen spectacular progress from both arithmetic and geometric points of view which in turn continues to have a huge influence and impact in theoretical physics in particular in string theory The workshop on Arithmetic and Geometry of K3 surfaces and Calabi Yau threefolds held at the Fields Institute August 16 25 2011 aimed to give a state of the art survey of these new developments This proceedings volume includes a representative sampling of the broad range of topics covered by the workshop While the subjects range from arithmetic geometry through algebraic geometry and differential geometry to mathematical physics the papers are naturally related by the common theme of Calabi Yau varieties With the big variety of branches of mathematics and mathematical physics touched upon this area reveals many deep connections between subjects previously considered unrelated Unlike most other conferences the 2011 Calabi Yau workshop started with 3 days of introductory lectures A selection of 4 of these lectures is included in this volume These lectures can be used as a starting point for the graduate students and other junior researchers or as a guide to the subject

Elliptic Curves Anthony W. Knapp, 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 Knapp 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

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

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