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Rational Points on Modular Elliptic Curves

Henri Darmon



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Rational Points On Modular Elliptic Curves

Claus Fieker, David R. Kohel



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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 *Geometry and Analysis of Automorphic Forms of Several Variables* Yoshinori Hamahata, 2012 This book covers OCA Java exam 1Z0 850 This is an entry level Java cert exam All you need is to pass one exam 1Z0 850 in order to pass The topics covered include Fundamental Object Oriented Concepts Java Implementation of Object Oriented Concepts Algorithm Design and Implementation Java Development Fundamentals Java Platforms and Integration Technologies Client Technologies Server Technologies We give you knowledge information relevant to the exam specifications To be able to succeed in the real exam you ll need to apply your earned knowledge to the question scenarios This Exam FOCUS book focuses on the more difficult topics that will likely make a difference in exam results *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

Number Theoretic Methods Shigeru Kanemitsu, Chaohua Jia, 2013-03-14 This volume contains the proceedings of the very successful second China Japan Seminar held in Iizuka Fukuoka Japan during March 12-16 2001 under the support of the Japan Society for the Promotion of Science JSPS and the National Science Foundation of China NSFC and some invited papers of eminent number theorists who visited Japan during 1999-2001 at the occasion of the Conference at the Research Institute of Mathematical Sciences RIMS Kyoto University The proceedings of the 1st China Japan Seminar held in September 1999 in Beijing has been published recently 2002 by Kluwer as DEVM 6 which also contains some invited papers The topics of that volume are however restricted to analytic number theory and many papers in this field are assembled In this volume we return to the lines of the previous one Number Theory and its Applications published as DEVM 2 by Kluwer in 1999 and uphold the spirit of presenting various topics in number theory and related areas with possible applications in a unified manner and this time in nearly a book form with a well prepared index We accomplish this task by collecting highly informative and readable survey papers including half survey type papers giving overlooking surveys of the hitherto obtained results in up to the hour form with insight into the new developments which are then analytically continued to a collection of high standard research papers which are concerned with rather diversified areas and will give good insight into new researches in the new century **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

Mathematics Unlimited - 2001 and Beyond Björn Engquist, Wilfried Schmid, 2017-04-05 This is a book guaranteed to delight the reader It not only depicts the state of mathematics at the end of the century but is also full of remarkable insights into its future development as we enter a new millennium True to its title the book extends beyond the spectrum of mathematics to include contributions from other related sciences You will enjoy reading the many stimulating contributions and gain insights into the astounding progress of mathematics and the perspectives for its future One of the editors Björn Engquist is a world renowned researcher in computational science and engineering The second editor Wilfried Schmid is a distinguished mathematician at Harvard University Likewise the authors are all foremost mathematicians and scientists and their biographies and photographs appear at the end of the book Unique in both form and content this is a must read for every mathematician and scientist and in particular for graduates still choosing their specialty

Algorithmic Number Theory Claus Fieker, David R. Kohel, 2003-08-02 This book constitutes the refereed proceedings of the 5th International Algorithmic Number Theory Symposium ANTS V held in Sydney Australia in July 2002 The 34 revised full papers presented together with 5 invited papers have gone through a thorough round of reviewing selection and revision The papers are organized in topical sections on number theory arithmetic geometry elliptic curves and CM point counting cryptography function fields discrete logarithms and factoring Groebner bases and complexity

Arithmetic Geometry, Number Theory, and Computation Jennifer S. Balakrishnan, Noam Elkies, Brendan Hassett, Bjorn Poonen, Andrew V. Sutherland, John Voight, 2022-03-15 This volume contains articles related to the work of the Simons Collaboration Arithmetic Geometry Number Theory and Computation The papers present mathematical results and algorithms necessary for the development of large scale databases like the L functions and Modular Forms Database LMFDB The authors aim to develop systematic tools for analyzing Diophantine properties of curves surfaces and abelian varieties over number fields and finite fields The articles also explore examples important for future research Specific topics include algebraic varieties over finite fields the Chabauty Coleman method modular forms rational points on curves of small genus S unit equations and integral points

Diophantine Geometry Marc Hindry, Joseph H. Silverman, 2013-12-01 This is an introduction to diophantine geometry at the advanced graduate level The book contains a proof of the Mordell conjecture which will make it quite attractive to graduate students and professional mathematicians In each part of the book the reader will find numerous exercises

Conjectures in Arithmetic Algebraic Geometry Wilfred W. J. Hulsbergen, 2013-03-09 **Number Theory** Michel

Waldschmidt, 1998 To observe the tenth anniversary of the founding of the Ramanujan Mathematical Society an international conference on Discrete Mathematics and Number Theory was held in January 1996 in Tiruchirapalli India This volume contains proceedings from the number theory component of that conference Papers are divided into four groups arithmetic algebraic geometry automorphic forms elementary and analytic number theory and transcendental number theory This work deals with recent progress in current aspects of number theory and covers a wide variety of topics Elliptic Curves Dale Husemoller, 2013-06-29 The book divides naturally into several parts according to the level of the material the background required of the reader and the style of presentation with respect to details of proofs For example the first part to Chapter 6 is undergraduate in level the second part requires a background in Galois theory and the third some complex analysis while the last parts from Chapter 12 on are mostly at graduate level A general outline of much of the material can be found in Tate's colloquium lectures reproduced as an article in *Inventiones* 1974 The first part grew out of Tate's 1961 Haverford Philips Lectures as an attempt to write something for publication closely related to the original Tate notes which were more or less taken from the tape recording of the lectures themselves This includes parts of the Introduction and the first six chapters The aim of this part is to prove by elementary methods the Mordell theorem on the finite generation of the rational points on elliptic curves defined over the rational numbers In 1970 Tate returned to Haverford to give again in revised form the original lectures of 1961 and to extend the material so that it would be suitable for publication This led to a broader plan for the book *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 is 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 and relevant techniques coming from a synthesis of various theories Introduction to Cryptography with Mathematical Foundations and Computer Implementations Alexander Stanoyevitch, 2010-08-09 From the exciting history of its development in ancient times to the present day *Introduction to Cryptography with Mathematical Foundations and Computer Implementations* provides a focused tour of the central concepts of cryptography Rather than present an encyclopedic treatment of topics in cryptography it delineates cryptographic concepts in chronological order developing the mathematics as needed Written in an engaging yet rigorous style each chapter introduces important concepts with clear definitions and theorems Numerous examples explain key points while figures and tables help illustrate more difficult or subtle concepts Each chapter is punctuated with Exercises for the Reader complete solutions for these are included in an appendix Carefully crafted exercise sets are also provided at the end of each chapter and detailed solutions to most odd

numbered exercises can be found in a designated appendix The computer implementation section at the end of every chapter guides students through the process of writing their own programs A supporting website provides an extensive set of sample programs as well as downloadable platform independent applet pages for some core programs and algorithms As the reliance on cryptography by business government and industry continues and new technologies for transferring data become available cryptography plays a permanent important role in day to day operations This self contained sophomore level text traces the evolution of the field from its origins through present day cryptosystems including public key cryptography and elliptic curve cryptography

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