

Progress in Mathematics



Modular Curves and Abelian Varieties

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G. Stevens



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Modular Curves and Abelian Varieties John Cremona, 2004-02-23 This book presents lectures from a conference on Modular Curves and Abelian Varieties at the Centre de Recerca Matemàtica Bellaterra Barcelona The articles in this volume present the latest achievements in this extremely active field and will be of interest both to specialists and to students and researchers Many contributions focus on generalizations of the Shimura Taniyama conjecture to varieties such as elliptic curves and Abelian varieties of GL₂ type The book also includes several key articles in the subject that do not correspond to conference lectures

Arithmetic on Modular Curves G. Stevens, 2012-12-06 One of the most intriguing problems of modern number theory is to relate the arithmetic of abelian varieties to the special values of associated L functions A very precise conjecture has been formulated for elliptic curves by Birch and Swinnerton Dyer and generalized to abelian varieties by Tate The numerical evidence is quite encouraging A weakened form of the conjectures has been verified for CM elliptic curves by Coates and Wiles and recently strengthened by K Rubin But a general proof of the conjectures seems still to be a long way off A few years ago B Mazur [26] proved a weak analog of these conjectures Let N be prime and χ be a weight two newform for $\Gamma_0(N)$ For a primitive Dirichlet character ψ of conductor prime to N let $L(\chi, \psi)$ denote the algebraic part of $L(f, \chi, \psi)$ see below Mazur showed in [26] that the residue class of $L(\chi, \psi)$ modulo the Eisenstein ideal gives information about the arithmetic of $X_0(N)$ There are two aspects to his work congruence formulae for the values $L(\chi, \psi)$ and a descent argument Mazur's congruence formulae were extended to $\Gamma_0(N)$ N prime by S Kamienny and the author [17] and in a paper which will appear shortly Kamienny has generalized the descent argument to this case

Introduction to Abelian Varieties Vijaya Kumar Murty, 1993 This book presents an elementary and self contained approach to Abelian varieties a subject that plays a central role in algebraic and analytic geometry number theory and complex analysis The book is based on notes from a course given at Concordia University and would be useful for independent study or as a textbook for graduate courses in complex analysis Riemann surfaces number theory or analytic geometry Murty works mostly over the complex numbers discussing the theorem of Abel Jacobi and Lefschetz's theorem on projective embeddings After presenting some examples Murty touches on Abelian varieties over number fields as well as the conjecture of Tate Faltings's theorem and its relation to Mordell's conjecture References are provided to guide the reader in further study

Abelian Varieties and Number Theory Moshe Jarden, Tony Shaska, 2021-05-03 This book is a collection of articles on Abelian varieties and number theory dedicated to Gerhard Frey's 75th birthday It contains original articles by experts in the area of arithmetic and algebraic geometry The articles cover topics on Abelian varieties and finitely generated Galois groups ranks of Abelian varieties and Mordell Lang conjecture Tate Shafarevich group and isogeny volcanoes endomorphisms of superelliptic Jacobians obstructions to local global principles over semi global fields Drinfeld modular varieties representations of étale fundamental groups and specialization of algebraic cycles Deuring's theory of constant reductions etc The book will be a valuable resource to

graduate students and experts working on Abelian varieties and related areas *Moduli of Abelian Varieties* Allan Adler, Sundararaman Ramanan, 2006-11-14 This is a book aimed at researchers and advanced graduate students in algebraic geometry interested in learning about a promising direction of research in algebraic geometry It begins with a generalization of parts of Mumford's theory of the equations defining abelian varieties and moduli spaces It shows through striking examples how one can use these apparently intractable systems of equations to obtain satisfying insights into the geometry and arithmetic of these varieties It also introduces the reader to some aspects of the research of the first author into representation theory and invariant theory and their applications to these geometrical questions **Curves and Abelian Varieties** Valery Alexeev, 2008 This book is devoted to recent progress in the study of curves and abelian varieties It discusses both classical aspects of this deep and beautiful subject as well as two important new developments tropical geometry and the theory of log schemes In addition to original research articles this book contains three surveys devoted to singularities of theta divisors of compactified Jacobians of singular curves and of strange duality among moduli spaces of vector bundles on algebraic varieties BOOK JACKET *Abelian Varieties with Complex Multiplication and Modular Functions* Goro Shimura, 2016-06-02 Reciprocity laws of various kinds play a central role in number theory In the easiest case one obtains a transparent formulation by means of roots of unity which are special values of exponential functions A similar theory can be developed for special values of elliptic or elliptic modular functions and is called complex multiplication of such functions In 1900 Hilbert proposed the generalization of these as the twelfth of his famous problems In this book Goro Shimura provides the most comprehensive generalizations of this type by stating several reciprocity laws in terms of abelian varieties theta functions and modular functions of several variables including Siegel modular functions This subject is closely connected with the zeta function of an abelian variety which is also covered as a main theme in the book The third topic explored by Shimura is the various algebraic relations among the periods of abelian integrals The investigation of such algebraicity is relatively new but has attracted the interest of increasingly many researchers Many of the topics discussed in this book have not been covered before In particular this is the first book in which the topics of various algebraic relations among the periods of abelian integrals as well as the special values of theta and Siegel modular functions are treated extensively **Complex Abelian Varieties** Christina Birkenhake, Herbert Lange, 2004-04-22 This book explores the theory of abelian varieties over the field of complex numbers explaining both classic and recent results in modern language The second edition adds five chapters on recent results including automorphisms and vector bundles on abelian varieties algebraic cycles and the Hodge conjecture far more readable than most it is also much more complete Olivier Debarre in Mathematical Reviews 1994 **Complex Abelian Varieties and Theta Functions** George R. Kempf, 2012-12-06 Abelian varieties are a natural generalization of elliptic curves to higher dimensions whose geometry and classification are as rich in elegant results as in the one dimensional case The use of theta functions particularly since Mumford's work has been an

important tool in the study of abelian varieties and invertible sheaves on them Also abelian varieties play a significant role in the geometric approach to modern algebraic number theory In this book Kempf has focused on the analytic aspects of the geometry of abelian varieties rather than taking the alternative algebraic or arithmetic points of view His purpose is to provide an introduction to complex analytic geometry Thus he uses Hermitian geometry as much as possible One distinguishing feature of Kempf's presentation is the systematic use of Mumford's theta group This allows him to give precise results about the projective ideal of an abelian variety In its detailed discussion of the cohomology of invertible sheaves the book incorporates material previously found only in research articles Also several examples where abelian varieties arise in various branches of geometry are given as a conclusion of the book

Moduli of Abelian Varieties Gerard van der Geer, C. Faber, Frans Oort, 2012-12-06 Abelian varieties and their moduli are a central topic of increasing importance in today's mathematics Applications range from algebraic geometry and number theory to mathematical physics The present collection of 17 refereed articles originates from the third Texel Conference held in 1999 Leading experts discuss and study the structure of the moduli spaces of abelian varieties and related spaces giving an excellent view of the state of the art in this field The book will appeal to pure mathematicians especially algebraic geometers and number theorists but will also be relevant for researchers in mathematical physics

Abelian Varieties over the Complex Numbers Herbert Lange, 2023-03-15 This textbook offers an introduction to abelian varieties a rich topic of central importance to algebraic geometry The emphasis is on geometric constructions over the complex numbers notably the construction of important classes of abelian varieties and their algebraic cycles The book begins with complex tori and their line bundles theta functions naturally leading to the definition of abelian varieties After establishing basic properties the moduli space of abelian varieties is introduced and studied The next chapters are devoted to the study of the main examples of abelian varieties Jacobian varieties abelian surfaces Albanese and Picard varieties Prym varieties and intermediate Jacobians Subsequently the Fourier-Mukai transform is introduced and applied to the study of sheaves and results on Chow groups and the Hodge conjecture are obtained This book is suitable for use as the main text for a first course on abelian varieties for instance as a second graduate course in algebraic geometry The variety of topics and abundant exercises also make it well suited to reading courses The book provides an accessible reference not only for students specializing in algebraic geometry but also in related subjects such as number theory cryptography mathematical physics and integrable systems

Abelian Varieties Serge Lang, 2019-02-13 Based on the work in algebraic geometry by Norwegian mathematician Niels Henrik Abel 1802-29 this monograph was originally published in 1959 and reprinted later in author Serge Lang's career without revision The treatment remains a basic advanced text in its field suitable for advanced undergraduates and graduate students in mathematics Prerequisites include some background in elementary qualitative algebraic geometry and the elementary theory of algebraic groups The book focuses exclusively on Abelian varieties rather than the broader field of algebraic groups therefore the first chapter

presents all the general results on algebraic groups relevant to this treatment Each chapter begins with a brief introduction and concludes with a historical and bibliographical note Topics include general theorems on Abelian varieties the theorem of the square divisor classes on an Abelian variety functorial formulas the Picard variety of an arbitrary variety the ℓ -adic representations and algebraic systems of Abelian varieties The text concludes with a helpful Appendix covering the composition of correspondences *Abelian ℓ -adic Representations and Elliptic Curves* Jean Pierre Serre,1968 The Structure of the Moduli of Curves and Abelian Varieties David Mumford,1970 **Abelian Varieties** Springer,2012-10-16

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 *Complex Tori and Abelian Varieties* Olivier Debarre,2005 This graduate level textbook introduces the classical theory of complex tori and abelian varieties while presenting in parallel more modern aspects of complex algebraic and analytic geometry Beginning with complex elliptic curves the book moves on to the higher dimensional case giving characterizations from different points of view of those complex tori which are abelian varieties i.e those that can be holomorphically embedded in a projective space This allows on the one hand for illuminating the computations of nineteenth century mathematicians and on the other familiarizing readers with more recent theories Complex tori are ideal in this respect One can perform hands on computations without the theory being totally trivial Standard theorems about abelian varieties are proved and moduli spaces are discussed *Moduli of Supersingular Abelian Varieties* Ke-Zheng Li,Frans Oort,2014-01-15 **Moduli of Abelian Varieties** Carel Faber,Gerard van der Geer,Frans Oort,2001-01-01 **Moduli of Abelian Varieties** Allan Adler,Sundararaman Ramanan,2014-01-15

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1. Understanding the eBook Modular Curves And Abelian Varieties Progreb In Mathematics Hardcover
 - The Rise of Digital Reading Modular Curves And Abelian Varieties Progreb In Mathematics Hardcover
 - Advantages of eBooks Over Traditional Books
2. Identifying Modular Curves And Abelian Varieties Progreb In Mathematics Hardcover
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Modular Curves And Abelian Varieties Progreb In Mathematics Hardcover
 - User-Friendly Interface
4. Exploring eBook Recommendations from Modular Curves And Abelian Varieties Progreb In Mathematics Hardcover

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 - ePub, PDF, MOBI, and More
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 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Modular Curves And Abelian Varieties Progreb In Mathematics Hardcover
 - Highlighting and Note-Taking Modular Curves And Abelian Varieties Progreb In Mathematics Hardcover
 - Interactive Elements Modular Curves And Abelian Varieties Progreb In Mathematics Hardcover
 8. Staying Engaged with Modular Curves And Abelian Varieties Progreb In Mathematics Hardcover
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Modular Curves And Abelian Varieties Progreb In Mathematics Hardcover
 9. Balancing eBooks and Physical Books Modular Curves And Abelian Varieties Progreb In Mathematics Hardcover
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Modular Curves And Abelian Varieties Progreb In Mathematics Hardcover
 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
 11. Cultivating a Reading Routine Modular Curves And Abelian Varieties Progreb In Mathematics Hardcover
 - Setting Reading Goals Modular Curves And Abelian Varieties Progreb In Mathematics Hardcover
 - Carving Out Dedicated Reading Time
 12. Sourcing Reliable Information of Modular Curves And Abelian Varieties Progreb In Mathematics Hardcover

- Fact-Checking eBook Content of Modular Curves And Abelian Varieties Progreb In Mathematics Hardcover
- Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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