

ARITHMETIC MODULI
OF ELLIPTIC CURVES

BY

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AND

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ANNALS OF MATHEMATICS STUDIES
PRINCETON UNIVERSITY PRESS

Arithmetic Moduli Of Elliptic Curves Am 108 Annals Of Mathematics Studies

Michal Rosen-Zvi



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Arithmetic and Geometry over Local Fields Bruno Anglès, Tuan Ngo Dac, 2021-03-03 This volume introduces some recent developments in Arithmetic Geometry over local fields Its seven chapters are centered around two common themes the study of Drinfeld modules and non Archimedean analytic geometry The notes grew out of lectures held during the research program Arithmetic and geometry of local and global fields which took place at the Vietnam Institute of Advanced Study in Mathematics VIASM from June to August 2018 The authors leading experts in the field have put great effort into making the text as self contained as possible introducing the basic tools of the subject The numerous concrete examples and suggested research problems will enable graduate students and young researchers to quickly reach the frontiers of this fascinating branch of mathematics

Arithmetic of p -adic Modular Forms Fernando Q. Gouvea, 2006-11-14 The central topic of this research monograph is the relation between p adic modular forms and p adic Galois representations and in particular the theory of deformations of Galois representations recently introduced by Mazur The classical theory of modular forms is assumed known to the reader but the p adic theory is reviewed in detail with ample intuitive and heuristic discussion so that the book will serve as a convenient point of entry to research in that area The results on the U operator and on Galois representations are new and will be of interest even to the experts A list of further problems in the field is included to guide the beginner in his research The book will thus be of interest to number theorists who wish to learn about p adic modular forms leading them rapidly to interesting research and also to the specialists in the subject

Néron Models Siegfried Bosch, Werner Lütkebohmert, Michel Raynaud, 2012-12-06 Néron models were invented by A Néron in the early 1960s in order to study the integral structure of abelian varieties over number fields Since then arithmeticians and algebraic geometers have applied the theory of Néron models with great success Quite recently new developments in arithmetic algebraic geometry have prompted a desire to understand more about Néron models and even to go back to the basics of their construction The authors have taken this as their incentive to present a comprehensive treatment of Néron models This volume of the renowned *Ergebnisse* series provides a detailed demonstration of the construction of Néron models from the point of view of Grothendieck's algebraic geometry In the second part of the book the relationship between Néron models and the relative Picard functor in the case of Jacobian varieties is explained The authors helpfully remind the reader of some important standard techniques of algebraic geometry A special chapter surveys the theory of the Picard functor

Mordell-Weil Lattices Matthias Schütt, Tetsuji Shioda, 2019-10-17 This book lays out the theory of Mordell Weil lattices a very powerful and influential tool at the crossroads of algebraic geometry and number theory which offers many fruitful connections to other areas of mathematics The book presents all the ingredients entering into the theory of Mordell Weil lattices in detail notably relevant portions of lattice theory elliptic curves and algebraic surfaces After defining Mordell Weil lattices the authors provide several applications in depth They start with the classification of rational elliptic surfaces Then a

useful connection with Galois representations is discussed By developing the notion of excellent families the authors are able to design many Galois representations with given Galois groups such as the Weyl groups of E_6 , E_7 and E_8 They also explain a connection to the classical topic of the 27 lines on a cubic surface Two chapters deal with elliptic K3 surfaces a pulsating area of recent research activity which highlights many central properties of Mordell Weil lattices Finally the book turns to the rank problem one of the key motivations for the introduction of Mordell Weil lattices The authors present the state of the art of the rank problem for elliptic curves both over $\mathbb{Q}$ and over $\mathbb{C}$ and work out applications to the sphere packing problem Throughout the book includes many instructive examples illustrating the theory

Partition Functions and Automorphic Forms Valery A. Gritsenko, Vyacheslav P. Spiridonov, 2020-07-09 This book offers an introduction to the research in several recently discovered and actively developing mathematical and mathematical physics areas It focuses on 1 Feynman integrals and modular functions 2 hyperbolic and Lorentzian Kac Moody algebras related automorphic forms and applications to quantum gravity 3 superconformal indices and elliptic hypergeometric integrals related instanton partition functions 4 moonshine its arithmetic aspects Jacobi forms elliptic genus and string theory and 5 theory and applications of the elliptic Painleve equation and aspects of Painleve equations in quantum field theories All the topics covered are related to various partition functions emerging in different supersymmetric and ordinary quantum field theories in curved space times of different $d = 2, 3, 6$ dimensions Presenting multidisciplinary methods localization Borchers products theory of special functions Cremona maps etc for treating a range of partition functions the book is intended for graduate students and young postdocs interested in the interaction between quantum field theory and mathematics related to automorphic forms representation theory number theory and geometry and mirror symmetry

Automorphic Forms and Related Topics Samuele Anni, Jay Jorgenson, Lejla Smajlović, Lynne Walling, 2019-06-19 This volume contains the proceedings of the Building Bridges 3rd EU US Summer School and Workshop on Automorphic Forms and Related Topics which was held in Sarajevo from July 11-22, 2016 The articles summarize material which was presented during the lectures and speed talks during the workshop These articles address various aspects of the theory of automorphic forms and its relations with the theory of L functions the theory of elliptic curves and representation theory In addition to mathematical content the workshop held a panel discussion on diversity and inclusion which was chaired by a social scientist who has contributed to this volume as well This volume is intended for researchers interested in expanding their own areas of focus thus allowing them to build bridges to mathematical questions in other fields

Elliptic Curves, Modular Forms & Fermat's Last Theorem John Coates, Shing-Tung Yau, 1997 These proceedings are based on a conference at the Chinese University of Hong Kong held in response to Andrew Wiles's conjecture that every elliptic curve over $\mathbb{Q}$ is modular The survey article describing Wiles's work is included as the first article in the present edition

Iitaka Conjecture Osamu Fujino, 2020-04-09 The ambitious program for the birational classification of higher dimensional complex algebraic varieties initiated by Shigeru Iitaka around 1970 is usually called the

Iitaka program Now it is known that the heart of the Iitaka program is the Iitaka conjecture which claims the subadditivity of the Kodaira dimension for fiber spaces The main purpose of this book is to make the Iitaka conjecture more accessible First Viehweg's theory of weakly positive sheaves and big sheaves is described and it is shown that the Iitaka conjecture follows from the Viehweg conjecture Then the Iitaka conjecture is proved in some special and interesting cases A relatively simple new proof of Viehweg's conjecture is given for fiber spaces whose geometric generic fiber is of general type based on the weak semistable reduction theorem due to Abramovich Karu and the existence theorem of relative canonical models by Birkar Cascini Hacon McKernan No deep results of the theory of variations of Hodge structure are needed The Iitaka conjecture for fiber spaces whose base space is of general type is also proved as an easy application of Viehweg's weak positivity theorem and the Viehweg conjecture for fiber spaces whose general fibers are elliptic curves is explained Finally the subadditivity of the logarithmic Kodaira dimension for morphisms of relative dimension one is proved In this book for the reader's convenience known arguments as well as some results are simplified and generalized with the aid of relatively new techniques

The Asian Journal of Mathematics, 2002 *Pure and Applied Mathematics Quarterly*, 2006 Books in Series, 1985 Vols for 1980 issued in three parts Series Authors and Titles Exposés Séminaire Bourbaki, 1998 **Bonner mathematische Schriften**, 1991 **Books in Print**, 1977 *Subject Guide to Books in Print*, 1984 **Forthcoming Books** Rose Army, 1984-03 **Scientific and Technical Books and Serials in Print**, 1989 **Die Anderson extension und 1-Motive** Christoph Brinkmann, 1991 **Arithmetic Moduli of Elliptic Curves. (AM-108), Volume 108** Nicholas M. Katz, Barry Mazur, 2016-03-02 This work is a comprehensive treatment of recent developments in the study of elliptic curves and their moduli spaces The arithmetic study of the moduli spaces began with Jacobi's *Fundamenta Nova* in 1829 and the modern theory was erected by Eichler Shimura Igusa and Deligne Rapoport In the past decade mathematicians have made further substantial progress in the field This book gives a complete account of that progress including not only the work of the authors but also that of Deligne and Drinfeld **The Arithmetic of Elliptic Curves** Joseph H. Silverman, 2013-03-09 The preface to a textbook frequently contains the author's justification for offering the public another book on the given subject For our chosen topic the arithmetic of elliptic curves there is little need for such an apologia Considering the vast amount of research currently being done in this area the paucity of introductory texts is somewhat surprising Parts of the theory are contained in various books of Lang especially *La 3* and *La 5* and there are books of Koblitz Kob and Robert Rob now out of print which concentrate mostly on the analytic and modular theory In addition survey articles have been written by Cassels *Ca 7* really a short book and Tate *Ta 5J* which is beautifully written but includes no proofs Thus the author hopes that this volume will fill a real need both for the serious student who wishes to learn the basic facts about the arithmetic of elliptic curves and for the research mathematician who needs a reference source for those same basic facts Our approach is more algebraic than that taken in say *La 3* or *La 5* where many of the basic theorems are derived using complex analytic

methods and the Lefschetz principle For this reason we have had to rely somewhat more on techniques from algebraic geometry However the geometry of smooth curves which is essentially all that we use does not require a great deal of machinery

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