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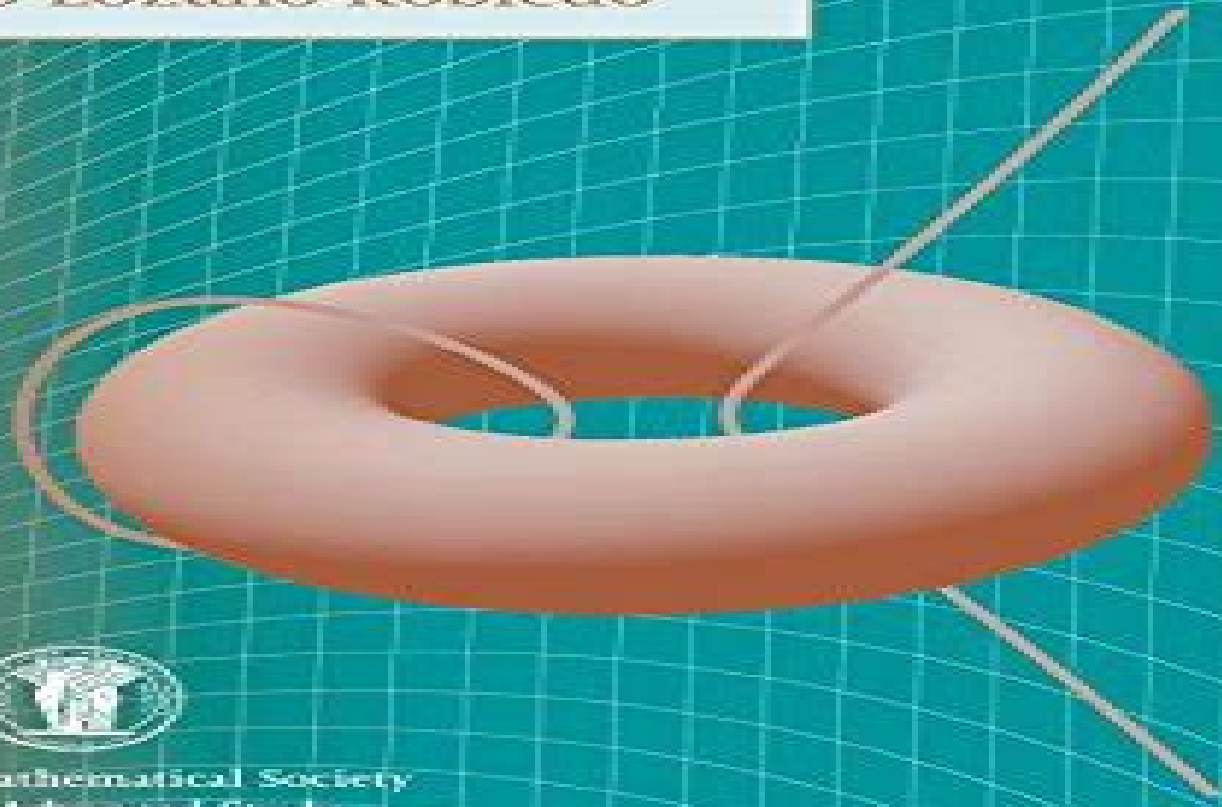
Elliptic Curves, Modular Forms, and Their L-functions

Álvaro Lozano-Robledo



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Elliptic Curves Modular Forms And Their L Functions Student Mathematical Library

Stephan Ramon Garcia,Steven J. Miller

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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 3 4 5 frac 3344161 747348 and frac 22440351770433696992455751309066748631609484720418912332268928859588025535178967163570016480830 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 **Commutative Algebra** Irena Peeva,2022-02-18 This contributed volume is a follow up to the 2013 volume of the same title published in honor of noted Algebraist David Eisenbud s 65th birthday It brings together the highest quality expository papers written by leaders and talented junior mathematicians in the field of Commutative Algebra Contributions cover a very wide range of topics including core areas in Commutative Algebra and also relations to Algebraic Geometry Category Theory Combinatorics Computational Algebra Homological Algebra Hyperplane Arrangements and Non commutative Algebra The book aims to showcase the area and aid junior mathematicians and researchers who are new to the field in broadening their background and gaining a deeper understanding of the current research in this area Exciting developments are surveyed and many open problems are discussed with the aspiration to inspire the readers and foster further research 100 Years of Math Milestones: The Pi Mu Epsilon Centennial Collection Stephan Ramon Garcia,Steven J. Miller,2019-06-13 This book is an outgrowth of a collection of 100 problems chosen to celebrate the 100th anniversary of the undergraduate math honor society Pi Mu Epsilon Each chapter describes a problem or event the progress made and connections to entries from other years or other parts of mathematics In places some knowledge of analysis or algebra number theory or probability will be

helpful Put together these problems will be appealing and accessible to energetic and enthusiastic math majors and aficionados of all stripes Stephan Ramon Garcia is WM Keck Distinguished Service Professor and professor of mathematics at Pomona College He is the author of four books and over eighty research articles in operator theory complex analysis matrix analysis number theory discrete geometry and other fields He has coauthored dozens of articles with students including one that appeared in The Best Writing on Mathematics 2015 He is on the editorial boards of Notices of the AMS Proceedings of the AMS American Mathematical Monthly Involve and Annals of Functional Analysis He received four NSF research grants as principal investigator and five teaching awards from three different institutions He is a fellow of the American Mathematical Society and was the inaugural recipient of the Society s Dolciani Prize for Excellence in Research Steven J Miller is professor of mathematics at Williams College and a visiting assistant professor at Carnegie Mellon University He has published five books and over one hundred research papers most with students in accounting computer science economics geophysics marketing mathematics operations research physics sabermetrics and statistics He has served on numerous editorial boards including the Journal of Number Theory Notices of the AMS and the Pi Mu Epsilon Journal He is active in enrichment and supplemental curricular initiatives for elementary and secondary mathematics from the Teachers as Scholars Program and VCTAL Value of Computational Thinking Across Grade Levels to numerous math camps the Eureka Program HCSSiM the Mathematics League International Summer Program PROMYS and the Ross Program He is a fellow of the American Mathematical Society an at large senator for Phi Beta Kappa and a member of the Mount Greylock Regional School Committee where he sees firsthand the challenges of applying mathematics **Probability on Compact Lie Groups** David Applebaum,2014-06-26 Probability theory on compact Lie groups deals with the interaction between chance and symmetry a beautiful area of mathematics of great interest in its own sake but which is now also finding increasing applications in statistics and engineering particularly with respect to signal processing The author gives a comprehensive introduction to some of the principle areas of study with an emphasis on applicability The most important topics presented are the study of measures via the non commutative Fourier transform existence and regularity of densities properties of random walks and convolution semigroups of measures and the statistical problem of deconvolution The emphasis on compact rather than general Lie groups helps readers to get acquainted with what is widely seen as a difficult field but which is also justified by the wealth of interesting results at this level and the importance of these groups for applications The book is primarily aimed at researchers working in probability stochastic analysis and harmonic analysis on groups It will also be of interest to mathematicians working in Lie theory and physicists statisticians and engineers who are working on related applications A background in first year graduate level measure theoretic probability and functional analysis is essential a background in Lie groups and representation theory is certainly helpful but the first two chapters also offer orientation in these subjects **A Century of Advancing Mathematics** Paul Zorn,2015-08-23 The MAA was founded in 1915 to serve as a home for The

American Mathematical Monthly The mission of the Association to advance mathematics especially at the collegiate level has however always been larger than merely publishing world class mathematical exposition MAA members have explored more than just mathematics we have as this volume tries to make evident investigated mathematical connections to pedagogy history the arts technology literature every field of intellectual endeavor Essays all commissioned for this volume include exposition by Bob Devaney Robin Wilson and Frank Morgan history from Karen Parshall Della Dumbaugh and Bill Dunham pedagogical discussion from Paul Zorn Joe Gallian and Michael Starbird and cultural commentary from Bonnie Gold Jon Borwein and Steve Abbott This volume contains 35 essays by all star writers and expositors writing to celebrate an extraordinary century for mathematics more mathematics has been created and published since 1915 than in all of previous recorded history We ve solved age old mysteries created entire new fields of study and changed our conception of what mathematics is Many of those stories are told in this volume as the contributors paint a portrait of the broad cultural sweep of mathematics during the MAA s first century Mathematics is the most thrilling the most human area of intellectual inquiry you will find in this volume compelling proof of that claim **A Gateway to Number Theory: Applying the Power of Algebraic Curves** Keith Kendig,2021-04-23 Challenge Can you find all the integers a b c satisfying 2a2 3b2 5c2 Looks simple and there are in fact a number of easy solutions But most of them turn out to be anything but obvious There are infinitely many possibilities and as any computer will tell you each of a b c will usually be large So the challenge remains Find all integers a a b c satisfying 2a2 3b2 5c2 A major advance in number theory means this book can give an easy answer to this and countless similar questions The idea behind the approach is transforming a degree two equation in integer variables a b c into a plane curve defined by a polynomial Working with the curve makes obtaining solutions far easier and the geometric solutions then get translated back into integers This method morphs hard problems into routine ones and typically requires no more than high school math The complete solution to 2a2 3b2 5c2 is included in the book In addition to equations of degree two the book addresses degree three equations a branch of number theory that is today something of a cottage industry and these problems translate into elliptic curves This important part of the book includes many pictures along with the exposition making the material meaningful and easy to grasp This book will fit nicely into an introductory course on number theory In addition the many solved examples illustrations and exercises make self studying the book an option for students thus becoming a natural candidate for a capstone course Automorphic Forms Anton Deitmar,2012-08-29 Automorphic forms are an important complex analytic tool in number theory and modern arithmetic geometry They played for example a vital role in Andrew Wiles s proof of Fermat s Last Theorem This text provides a concise introduction to the world of automorphic forms using two approaches the classic elementary theory and the modern point of view of adeles and representation theory The reader will learn the important aims and results of the theory by focussing on its essential aspects and restricting it to the base field of rational numbers Students interested for example in arithmetic geometry or number

theory will find that this book provides an optimal and easily accessible introduction into this topic **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 under standing of some basic tools used throughout mathematics Graduate stu dents wanting to work in number theory or algebraic geometry would get a motivational example oriented introduction In addition advanced under graduates could use the book for independent study projects senior theses and seminar work Rational Points on Modular Elliptic Curves Henri Darmon,2004 The book surveys some recent developments in the arithmetic of modular elliptic curves It places a special emphasis on the construction of rational points on elliptic curves the Birch and Swinnerton Dyer conjecture and the crucial role played by modularity in shedding light on these two closely related issues The main theme of the book is the theory of complex multiplication Heegner points and some conjectural variants The first three chapters introduce the background and prerequisites elliptic curves modular forms and the Shimura Taniyama Weil conjecture complex multiplication and the Heegner point construction The next three chapters introduce variants of modular parametrizations in which modular curves are replaced by Shimura curves attached to certain indefinite quaternion algebras The main new contributions are found in Chapters 7 9 which survey the author s attempts to extend the theory of Heegner points and complex multiplication to situations where the base field is not a CM field Chapter 10 explains the proof of Kolyvagin s theorem which relates Heegner points to the arithmetic of elliptic curves and leads to the best evidence so far for the Birch and Swinnerton Dyer conjecture **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 under standing of some basic tools used throughout mathematics Graduate stu dents wanting to work in number theory or algebraic geometry would get a motivational example oriented introduction In addition advanced under graduates could use the book for independent study projects senior theses and seminar work *Mathematical Reviews* ,2004 Choice ,2008 *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 modeular 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 concidence 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 **Elliptic Functions and Elliptic Curves** Patrick Du Val,1973-08-02 A comprehensive treatment of elliptic functions is linked by these notes to a study of their application to elliptic curves This approach provides geometers with the opportunity to acquaint themselves with aspects of their subject virtually ignored by other texts The exposition is clear and logically carries themes from earlier through to later topics This enthusiastic work of scholarship is made complete with the inclusion of some interesting historical details and a very comprehensive bibliography **Gross-stark Units, Stark-Heegner Points, and Class Fields of Real Quadratic Fields** Samit Dasgupta,2004 *New Technical Books* New York Public Library,1986 **Elliptic Curves and Related Topics** H. Kisilevsky,Maruti Ram Murty,1994-01-01 This book represents the proceedings of a workshop on elliptic curves held in St Adele Quebec in February 1992 Containing both expository and research articles on the theory of elliptic curves this collection covers a range of topics from Langlands s theory to the algebraic geometry of elliptic curves from Iwasawa theory to computational aspects of elliptic curves This book is especially significant in that it covers topics comprising the main ingredients in Andrew Wiles s recent result on Fermat s Last Theorem **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 **The Bulletin of Mathematics Books** ,1992 *Elliptic Curves (Second Edition)* James S Milne,2020-08-20 This book uses the beautiful theory of elliptic curves to introduce the reader to some of the deeper aspects of number theory It assumes only a knowledge of the basic algebra complex analysis and topology usually taught in first year graduate courses An elliptic curve is a plane curve defined by a cubic polynomial Although the problem of finding the rational points on an elliptic curve has fascinated mathematicians since ancient times it was not until 1922 that Mordell proved that the points form a finitely generated group There is still no proven algorithm for finding the rank of the group but in one of the earliest important applications of computers to mathematics Birch and Swinnerton Dyer discovered a relation between the rank and the numbers of points on the curve computed modulo a prime Chapter IV of the book proves Mordell s theorem and explains the conjecture of Birch and Swinnerton Dyer Every elliptic curve over the rational numbers has an L series attached to it Hasse conjectured that this L series satisfies a functional equation and in 1955 Taniyama suggested that Hasse s conjecture could be proved by showing that the L series arises from a modular form This was shown to be correct by Wiles and others in the 1990s and as a consequence one obtains a proof of Fermat s Last Theorem Chapter V of the book is devoted to explaining this work The first three chapters develop the basic theory of elliptic curves For this edition the text has been completely revised and updated

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