

Graduate Texts in Mathematics

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Ian Morrison**

Moduli of Curves



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Moduli Of Curves Graduate Texts In Mathematics

Vijaya Kumar Murty



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Moduli of Curves {Graduate Texts in Mathematics 187} J. Harris, 1998 This work provides a guide to a rich and fascinating subject algebraic curves and how they vary in families The aim has been to provide a broad but compact overview of the field which will be accessible to readers with a modest background in algebraic geometry It has over 180 exercises and 70 figures

Moduli of Curves Joe Harris, Ian Morrison, 2006-04-06 The aim of this book is to provide a guide to a rich and fascinating subject algebraic curves and how they vary in families The revolution that the field of algebraic geometry has undergone with the introduction of schemes together with new ideas techniques and viewpoints introduced by Mumford and others have made it possible for us to understand the behavior of curves in ways that simply were not possible a half century ago This in turn has led over the last few decades to a burst of activity in the area resolving longstanding problems and generating new and unforeseen results and questions We hope to acquaint you both with these results and with the ideas that have made them possible The book isn't intended to be a definitive reference the subject is developing too rapidly for that to be a feasible goal even if we had the expertise necessary for the task Our preference has been to focus on examples and applications rather than on foundations When discussing techniques we've chosen to sacrifice proofs of some even basic results particularly where we can provide a good reference in order to show how the methods are used to study moduli of curves Likewise we often prove results in special cases which we feel bring out the important ideas with a minimum of technical complication

Handbook of Teichmüller Theory Athanase Papadopoulos, 2007 The subject of this handbook is Teichmüller theory in a wide sense namely the theory of geometric structures on surfaces and their moduli spaces This includes the study of vector bundles on these moduli spaces the study of mapping class groups the relation with 3 manifolds the relation with symmetric spaces and arithmetic groups the representation theory of fundamental groups and applications to physics Thus the handbook is a place where several fields of mathematics interact Riemann surfaces hyperbolic geometry partial differential equations several complex variables algebraic geometry algebraic topology combinatorial topology low dimensional topology theoretical physics and others This confluence of ideas toward a unique subject is a manifestation of the unity and harmony of mathematics This volume contains surveys on the fundamental theory as well as surveys on applications to and relations with the fields mentioned above It is written by leading experts in these fields Some of the surveys contain classical material while others present the latest developments of the theory as well as open problems This volume is divided into the following four sections The metric and the analytic theory The group theory The algebraic topology of mapping class groups and moduli spaces Teichmüller theory and mathematical physics This handbook is addressed to graduate students and researchers in all the fields mentioned

A Concise Introduction to Algebraic Varieties Brian Osserman, 2021-12-02 A Concise Introduction to Algebraic Varieties is designed for a one term introductory course on algebraic varieties over an algebraically closed field and it provides a solid basis for a course on schemes and cohomology or

on specialized topics such as toric varieties and moduli spaces of curves The book balances generality and accessibility by presenting local and global concepts such as nonsingularity normality and completeness using the language of atlases an approach that is most commonly associated with differential topology The book concludes with a discussion of the Riemann Roch theorem the Brill Noether theorem and applications The prerequisites for the book are a strong undergraduate algebra course and a working familiarity with basic point set topology A course in graduate algebra is helpful but not required The book includes appendices presenting useful background in complex analytic topology and commutative algebra and provides plentiful examples and exercises that help build intuition and familiarity with algebraic varieties

The Practice of Algebraic Curves David Eisenbud, Joe Harris, 2024-11-07 This textbook provides readers with a working knowledge of the modern theory of complex projective algebraic curves Also known as compact Riemann surfaces such curves shaped the development of algebraic geometry itself making this theory essential background for anyone working in or using this discipline Examples underpin the presentation throughout illustrating techniques that range across classical geometric theory modern commutative algebra and moduli theory The book begins with two chapters covering basic ideas including maps to projective space invertible sheaves and the Riemann Roch theorem Subsequent chapters alternate between a detailed study of curves up to genus six and more advanced topics such as Jacobians Hilbert schemes moduli spaces of curves Severi varieties dualizing sheaves and linkage of curves in 3 space Three chapters treat the refinements of the Brill Noether theorem including applications and a complete proof of the basic result Two chapters on free resolutions rational normal scrolls and canonical curves build context for Green's conjecture The book culminates in a study of Hilbert schemes of curves through examples A historical appendix by Jeremy Gray captures the early development of the theory of algebraic curves Exercises illustrations and open problems accompany the text throughout The Practice of Algebraic Curves offers a masterclass in theory that has become essential in areas ranging from algebraic geometry itself to mathematical physics and other applications Suitable for students and researchers alike the text bridges the gap from a first course in algebraic geometry to advanced literature and active research

Arithmetic and Geometry Around Galois Theory Pierre Dèbes, Michel Emsalem, Matthieu Romagny, A. Muhammed Uludağ, 2012-12-13 This Lecture Notes volume is the fruit of two research level summer schools jointly organized by the GTEM node at Lille University and the team of Galatasaray University Istanbul Geometry and Arithmetic of Moduli Spaces of Coverings 2008 and Geometry and Arithmetic around Galois Theory 2009 The volume focuses on geometric methods in Galois theory The choice of the editors is to provide a complete and comprehensive account of modern points of view on Galois theory and related moduli problems using stacks gerbes and groupoids It contains lecture notes on the fundamental group and fundamental group scheme and moduli stacks of curves and covers Research articles complete the collection

Classical Algebraic Geometry Igor V. Dolgachev, 2012-08-16 This detailed exposition makes classical algebraic geometry accessible to the modern mathematician

Cyclic Coverings,

Calabi-Yau Manifolds and Complex Multiplication Christian Rohde, 2009-04-28 The main goal of this book is the construction of families of Calabi Yau 3 manifolds with dense sets of complex multiplication fibers The new families are determined by combining and generalizing two methods Firstly the method of E Viehweg and K Zuo who have constructed a deformation of the Fermat quintic with a dense set of CM fibers by a tower of cyclic coverings Using this method new families of K3 surfaces with dense sets of CM fibers and involutions are obtained Secondly the construction method of the Borcea Voisin mirror family which in the case of the author's examples yields families of Calabi Yau 3 manifolds with dense sets of CM fibers is also utilized Moreover fibers with complex multiplication of these new families are also determined This book was written for young mathematicians physicists and also for experts who are interested in complex multiplication and varieties with complex multiplication The reader is introduced to generic Mumford Tate groups and Shimura data which are among the main tools used here The generic Mumford Tate groups of families of cyclic covers of the projective line are computed for a broad range of examples

Introduction to Compact Riemann Surfaces and Dessins D'Enfants Ernesto Gironde, Gabino González-Diez, 2012 An elementary account of the theory of compact Riemann surfaces and an introduction to the Belyi Grothendieck theory of dessins d'enfants

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 adèles 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

The Art of Doing Algebraic Geometry Thomas Dedieu, Flaminio Flamini, Claudio Fontanari, Concettina Galati, Rita Pardini, 2023-04-14 This volume is dedicated to Ciro Ciliberto on the occasion of his 70th birthday and contains refereed papers offering an overview of important parts of current research in algebraic geometry and related research in the history of mathematics It presents original research as well as surveys both providing a valuable overview of the current state of the art of the covered topics and reflecting the versatility of the scientific interests of Ciro Ciliberto

Geometry of Characteristic Classes Shigeyuki Morita, 2001 Characteristic classes are central to the modern study of the topology and geometry of manifolds They were first introduced in topology where for instance they could be used to define obstructions to the existence of certain fiber bundles Characteristic classes were later defined via the Chern Weil theory using connections on vector bundles thus revealing their geometric side In the late 1960s new theories arose that described still finer structures Examples of the so called secondary characteristic classes came from Chern Simons invariants Gelfand Fuks cohomology and the characteristic classes of flat bundles The new techniques are particularly useful for the study of fiber bundles whose structure groups are not finite

dimensional The theory of characteristic classes of surface bundles is perhaps the most developed Here the special geometry of surfaces allows one to connect this theory to the theory of moduli space of Riemann surfaces i e Teichmüller theory In this book Morita presents an introduction to the modern theories of characteristic classes Algebraic Geometry and Number Theory Hussein Mourtada,Celal Cem Sarioğlu,Christophe Soulé,Ayberk Zeytin,2017-05-07 This lecture notes volume presents significant contributions from the Algebraic Geometry and Number Theory Summer School held at Galatasaray University Istanbul June 2 13 2014 It addresses subjects ranging from Arakelov geometry and Iwasawa theory to classical projective geometry birational geometry and equivariant cohomology Its main aim is to introduce these contemporary research topics to graduate students who plan to specialize in the area of algebraic geometry and or number theory All contributions combine main concepts and techniques with motivating examples and illustrative problems for the covered subjects Naturally the book will also be of interest to researchers working in algebraic geometry number theory and related fields Algebraic Geometry Dan Abramovich,2009 Offers information on various technical tools from jet schemes and derived categories to algebraic stacks This book delves into the geometry of various moduli spaces including those of stable curves stable maps coherent sheaves and abelian varieties It describes various advances in higher dimensional bi rational geometry

Conformal Blocks, Generalized Theta Functions and the Verlinde Formula Shrawan Kumar,2021-11-25 In 1988 E Verlinde gave a remarkable conjectural formula for the dimension of conformal blocks over a smooth curve in terms of representations of affine Lie algebras Verlinde s formula arose from physical considerations but it attracted further attention from mathematicians when it was realized that the space of conformal blocks admits an interpretation as the space of generalized theta functions A proof followed through the work of many mathematicians in the 1990s This book gives an authoritative treatment of all aspects of this theory It presents a complete proof of the Verlinde formula and full details of the connection with generalized theta functions including the construction of the relevant moduli spaces and stacks of G bundles Featuring numerous exercises of varying difficulty guides to the wider literature and short appendices on essential concepts it will be of interest to senior graduate students and researchers in geometry representation theory and theoretical physics

The Geometry of Schemes David Eisenbud,Joe Harris,2006-04-06 Grothendieck s beautiful theory of schemes permeates modern algebraic geometry and underlies its applications to number theory physics and applied mathematics This simple account of that theory emphasizes and explains the universal geometric concepts behind the definitions In the book concepts are illustrated with fundamental examples and explicit calculations show how the constructions of scheme theory are carried out in practice *A Celebration of Algebraic Geometry* Brendan Hassett,James McKernan,Jason Starr,Ravi Vakil,2013-09-11 This volume resulted from the conference A Celebration of Algebraic Geometry which was held at Harvard University from August 25 28 2011 in honor of Joe Harris 60th birthday Harris is famous around the world for his lively textbooks and enthusiastic teaching as well as for his seminal research contributions The articles are written in this spirit

clear original engaging enlivened by examples and accessible to young mathematicians The articles in this volume focus on the moduli space of curves and more general varieties commutative algebra invariant theory enumerative geometry both classical and modern rationally connected and Fano varieties Hodge theory and abelian varieties and Calabi Yau and hyperkähler manifolds Taken together they present a comprehensive view of the long frontier of current knowledge in algebraic geometry Titles in this series are co published with the Clay Mathematics Institute Cambridge MA Algebraic Spaces and Stacks Martin Olsson, 2023-09-15 This book is an introduction to the theory of algebraic spaces and stacks intended for graduate students and researchers familiar with algebraic geometry at the level of a first year graduate course The first several chapters are devoted to background material including chapters on Grothendieck topologies descent and fibered categories Following this the theory of algebraic spaces and stacks is developed The last three chapters discuss more advanced topics including the Keel Mori theorem on the existence of coarse moduli spaces gerbes and Brauer groups and various moduli stacks of curves Numerous exercises are included in each chapter ranging from routine verifications to more difficult problems and a glossary of necessary category theory is included as an appendix It is splendid to have a self contained treatment of stacks written by a leading practitioner Finally we have a reference where one can find careful statements and proofs of many of the foundational facts in this important subject Researchers and students at all levels will be grateful to Olsson for writing this book William Fulton University of Michigan This is a carefully planned out book starting with foundations and ending with detailed proofs of key results in the theory of algebraic stacks Johan de Jong Columbia University **Seminar on Fermat's Last Theorem** Vijaya Kumar Murty, 1995 The most significant recent development in number theory is the work of Andrew Wiles on modular elliptic curves Besides implying Fermat's Last Theorem his work establishes a new reciprocity law Reciprocity laws lie at the heart of number theory Wiles work draws on many of the tools of modern number theory and the purpose of this volume is to introduce readers to some of this background material Based on a seminar held during 1993 1994 at the Fields Institute for Research in Mathematical Sciences this book contains articles on elliptic curves modular forms and modular curves Serre's conjectures Ribet's theorem deformations of Galois representations Euler systems and annihilators of Selmer groups All of the authors are well known in their field and have made significant contributions to the general area of elliptic curves Galois representations and modular forms Features Brings together a unique collection of number theoretic tools Makes accessible the tools needed to understand one of the biggest breakthroughs in mathematics Provides numerous references for further study *Introduction to String Theory* Sergio Cecotti, 2023-10-06 Graduate students typically enter into courses on string theory having little to no familiarity with the mathematical background so crucial to the discipline As such this book based on lecture notes edited and expanded from the graduate course taught by the author at SISSA and BIMSA places particular emphasis on said mathematical background The target audience for the book includes students of both theoretical physics and mathematics This explains the book's strange

style on the one hand it is highly didactic and explicit with a host of examples for the physicists but in addition there are also almost 100 separate technical boxes appendices and starred sections in which matters discussed in the main text are put into a broader mathematical perspective while deeper and more rigorous points of view particularly those from the modern era are presented The boxes also serve to further shore up the reader's understanding of the underlying math In writing this book the author's goal was not to achieve any sort of definitive conciseness opting instead for clarity and completeness To this end several arguments are presented more than once from different viewpoints and in varying contexts

Enjoying the Track of Appearance: An Psychological Symphony within **Moduli Of Curves Graduate Texts In Mathematics**

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