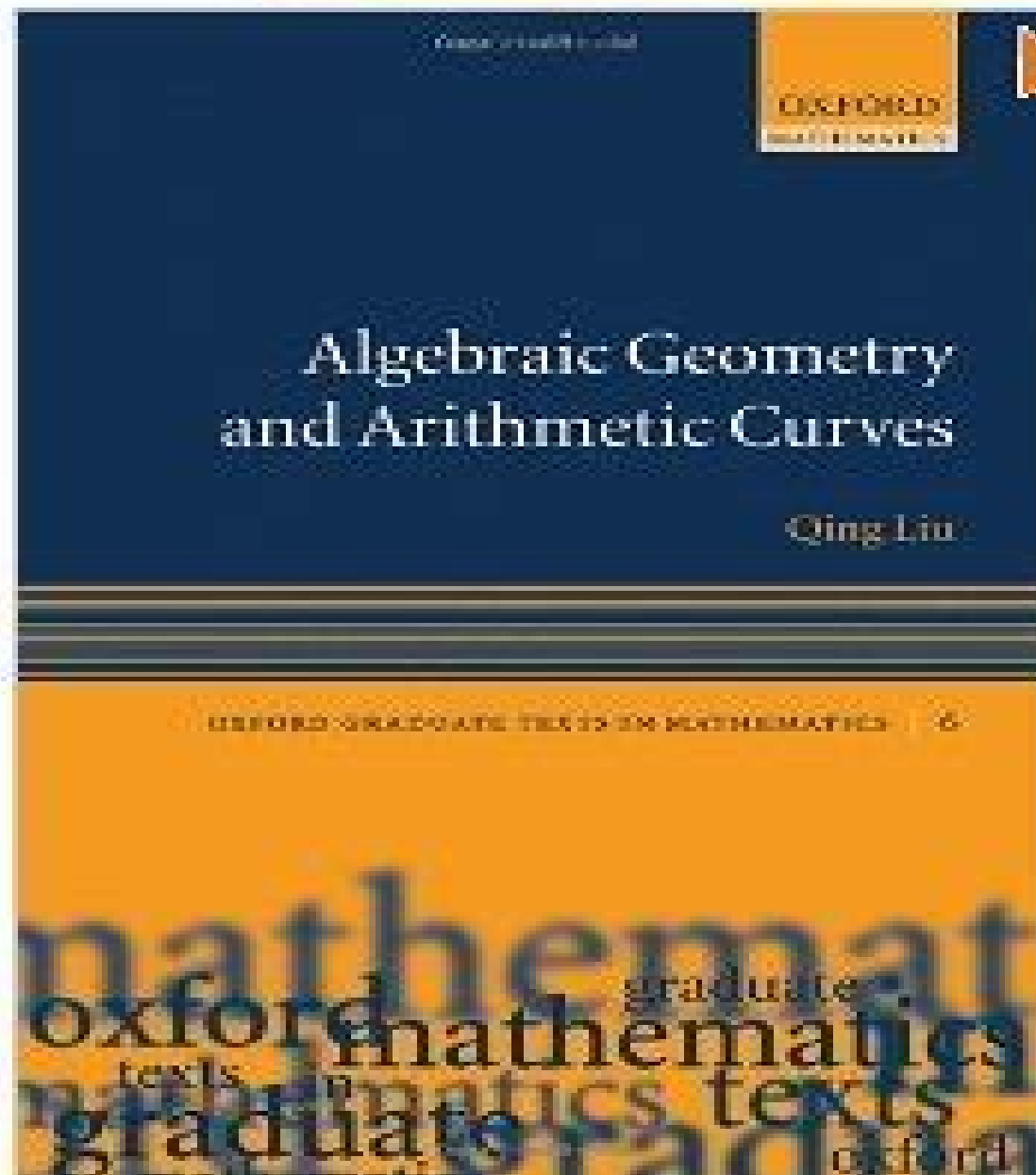


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Algebraic Geometry And Arithmetic Curves

Dino Lorenzini



Algebraic Geometry And Arithmetic Curves:

Algebraic Geometry and Arithmetic Curves Qing Liu, Reinie Erne, 2006-06-29 This book is a general introduction to the theory of schemes followed by applications to arithmetic surfaces and to the theory of reduction of algebraic curves The first part introduces basic objects such as schemes morphisms base change local properties normality regularity Zariski's Main Theorem This is followed by the more global aspect coherent sheaves and a finiteness theorem for their cohomology groups Then follows a chapter on sheaves of differentials dualizing sheaves and Grothendieck's duality theory The first part ends with the theorem of Riemann-Roch and its application to the study of smooth projective curves over a field Singular curves are treated through a detailed study of the Picard group The second part starts with blowing ups and desingularisation embedded or not of fibered surfaces over a Dedekind ring that leads on to intersection theory on arithmetic surfaces Castelnuovo's criterion is proved and also the existence of the minimal regular model This leads to the study of reduction of algebraic curves The case of elliptic curves is studied in detail The book concludes with the fundamental theorem of stable reduction of Deligne-Mumford The book is essentially self-contained including the necessary material on commutative algebra The prerequisites are therefore few and the book should suit a graduate student It contains many examples and nearly 600 exercises

Algebraic Geometry and Arithmetic Curves Qing Liu, 2006

An Invitation to Arithmetic Geometry Dino Lorenzini, 2021-12-23 Extremely carefully written masterfully thought out and skillfully arranged introduction to the arithmetic of algebraic curves on the one hand and to the algebraic geometric aspects of number theory on the other hand an excellent guide for beginners in arithmetic geometry just as an interesting reference and methodical inspiration for teachers of the subject a highly welcome addition to the existing literature Zentralblatt MATH The interaction between number theory and algebraic geometry has been especially fruitful In this volume the author gives a unified presentation of some of the basic tools and concepts in number theory commutative algebra and algebraic geometry and for the first time in a book at this level brings out the deep analogies between them The geometric viewpoint is stressed throughout the book Extensive examples are given to illustrate each new concept and many interesting exercises are given at the end of each chapter Most of the important results in the one-dimensional case are proved including Bombieri's proof of the Riemann Hypothesis for curves over a finite field While the book is not intended to be an introduction to schemes the author indicates how many of the geometric notions introduced in the book relate to schemes which will aid the reader who goes to the next level of this rich subject

Arithmetic of Algebraic Curves Serguei A. Stepanov, 1994-12-31 Author S. A. Stepanov thoroughly investigates the current state of the theory of Diophantine equations and its related methods Discussions focus on arithmetic algebraic geometric and logical aspects of the problem Designed for students as well as researchers the book includes over 250 exercises accompanied by hints instructions and references Written in a clear manner this text does not require readers to have special knowledge of modern methods of algebraic geometry

An

Introduction to Algebraic Geometry and Algebraic Groups Meinolf Geck, 2013-03-14 An accessible text introducing algebraic groups at advanced undergraduate and early graduate level this book covers the conjugacy of Borel subgroups and maximal tori the theory of algebraic groups with a BN pair Frobenius maps on affine varieties and algebraic groups zeta functions and Lefschetz numbers for varieties over finite fields *Arithmetic Algebraic Geometry* G., van der Geer, F. Oort, J.H.M. Steenbrink, 2012-12-06 Arithmetic algebraic geometry is in a fascinating stage of growth providing a rich variety of applications of new tools to both old and new problems Representative of these recent developments is the notion of Arakelov geometry a way of completing a variety over the ring of integers of a number field by adding fibres over the Archimedean places Another is the appearance of the relations between arithmetic geometry and Nevanlinna theory or more precisely between diophantine approximation theory and the value distribution theory of holomorphic maps Inspired by these exciting developments the editors organized a meeting at Texel in 1989 and invited a number of mathematicians to write papers for this volume Some of these papers were presented at the meeting others arose from the discussions that took place They were all chosen for their quality and relevance to the application of algebraic geometry to arithmetic problems Topics include arithmetic surfaces Chermak functors modular curves and modular varieties elliptic curves Kolyvagin's work K theory and Galois representations Besides the research papers there is a letter of Parshin and a paper of Zagier with its interpretations of the Birch Swinnerton Dyer Conjecture Research mathematicians and graduate students in algebraic geometry and number theory will find a valuable and lively view of the field in this state of the art selection *Algebraic Geometry and Commutative Algebra* Siegfried Bosch, 2022-04-22 Algebraic Geometry is a fascinating branch of Mathematics that combines methods from both Algebra and Geometry It transcends the limited scope of pure Algebra by means of geometric construction principles Putting forward this idea Grothendieck revolutionized Algebraic Geometry in the late 1950s by inventing schemes Schemes now also play an important role in Algebraic Number Theory a field that used to be far away from Geometry The new point of view paved the way for spectacular progress such as the proof of Fermat's Last Theorem by Wiles and Taylor This book explains the scheme theoretic approach to Algebraic Geometry for non experts while more advanced readers can use it to broaden their view on the subject A separate part presents the necessary prerequisites from Commutative Algebra thereby providing an accessible and self contained introduction to advanced Algebraic Geometry Every chapter of the book is preceded by a motivating introduction with an informal discussion of its contents and background Typical examples and an abundance of exercises illustrate each section Therefore the book is an excellent companion for self studying or for complementing skills that have already been acquired It can just as well serve as a convenient source for reading course material and in any case as supplementary literature The present edition is a critical revision of the earlier text *An Invitation to Modern Enumerative Geometry* Andrea T. Ricolfi, 2022-12-14 This book is based on a series of lectures given by the author at SISSA Trieste within the PhD courses Techniques in enumerative

geometry 2019 and Localisation in enumerative geometry 2021 The goal of this book is to provide a gentle introduction aimed mainly at graduate students to the fast growing subject of enumerative geometry and more specifically counting invariants in algebraic geometry In addition to the more advanced techniques explained and applied in full detail to concrete calculations the book contains the proofs of several background results important for the foundations of the theory In this respect this text is conceived for PhD students or research beginners in the field of enumerative geometry or related areas This book can be read as an introduction to Hilbert schemes and Quot schemes on 3 folds but also as an introduction to localisation formulae in enumerative geometry It is meant to be accessible without a strong background in algebraic geometry however three appendices one on deformation theory one on intersection theory one on virtual fundamental classes are meant to help the reader dive deeper into the main material of the book and to make the text itself as self contained as possible *Analytic and Algebraic Geometry* Anilatmaja Aryasomayajula, Indranil Biswas, Archana S. Morje, A. J. Parameswaran, 2017-09-08 This volume is an outcome of the International conference held in Tata Institute of Fundamental Research and the University of Hyderabad There are fifteen articles in this volume The main purpose of the articles is to introduce recent and advanced techniques in the area of analytic and algebraic geometry This volume attempts to give recent developments in the area to target mainly young researchers who are new to this area Also some research articles have been added to give examples of how to use these techniques to prove new results *A Royal Road to Algebraic Geometry* Audun Holme, 2011-10-06 This book is about modern algebraic geometry The title *A Royal Road to Algebraic Geometry* is inspired by the famous anecdote about the king asking Euclid if there really existed no simpler way for learning geometry than to read all of his work *Elements* Euclid is said to have answered There is no royal road to geometry The book starts by explaining this enigmatic answer the aim of the book being to argue that indeed in some sense there is a royal road to algebraic geometry From a point of departure in algebraic curves the exposition moves on to the present shape of the field culminating with Alexander Grothendieck's theory of schemes Contemporary homological tools are explained The reader will follow a directed path leading up to the main elements of modern algebraic geometry When the road is completed the reader is empowered to start navigating in this immense field and to open up the door to a wonderful field of research The greatest scientific experience of a lifetime **Rigid Geometry of Curves and Their Jacobians** Werner Lütkebohmert, 2016-01-26 This book presents some of the most important aspects of rigid geometry namely its applications to the study of smooth algebraic curves of their Jacobians and of abelian varieties all of them defined over a complete non archimedean valued field The text starts with a survey of the foundation of rigid geometry and then focuses on a detailed treatment of the applications In the case of curves with split rational reduction there is a complete analogue to the fascinating theory of Riemann surfaces In the case of proper smooth group varieties the uniformization and the construction of abelian varieties are treated in detail Rigid geometry was established by John Tate and was enriched by a formal algebraic approach launched by Michel Raynaud It has

proved as a means to illustrate the geometric ideas behind the abstract methods of formal algebraic geometry as used by Mumford and Faltings This book should be of great use to students wishing to enter this field as well as those already working in it

Arakelov Geometry Atsushi Moriwaki, 2014-11-05 The main goal of this book is to present the so called birational Arakelov geometry which can be viewed as an arithmetic analog of the classical birational geometry i e the study of big linear series on algebraic varieties After explaining classical results about the geometry of numbers the author starts with Arakelov geometry for arithmetic curves and continues with Arakelov geometry of arithmetic surfaces and higher dimensional varieties The book includes such fundamental results as arithmetic Hilbert Samuel formula arithmetic Nakai Moishetzon criterion arithmetic Bogomolov inequality the existence of small sections the continuity of arithmetic volume function the Lang Bogomolov conjecture and so on In addition the author presents with full details the proof of Faltings Riemann Roch theorem Prerequisites for reading this book are the basic results of algebraic geometry and the language of schemes

Algorithmic and Experimental Methods in Algebra, Geometry, and Number Theory Gebhard Böckle, Wolfram Decker, Gunter Malle, 2018-03-22 This book presents state of the art research and survey articles that highlight work done within the Priority Program SPP 1489 Algorithmic and Experimental Methods in Algebra Geometry and Number Theory which was established and generously supported by the German Research Foundation DFG from 2010 to 2016 The goal of the program was to substantially advance algorithmic and experimental methods in the aforementioned disciplines to combine the different methods where necessary and to apply them to central questions in theory and practice Of particular concern was the further development of freely available open source computer algebra systems and their interaction in order to create powerful new computational tools that transcend the boundaries of the individual disciplines involved The book covers a broad range of topics addressing the design and theoretical foundations implementation and the successful application of algebraic algorithms in order to solve mathematical research problems It offers a valuable resource for all researchers from graduate students through established experts who are interested in the computational aspects of algebra geometry and or number theory

Computer Algebra in Scientific Computing François Boulier, Matthew England, Timur M. Sadykov, Evgenii V. Vorozhtsov, 2022-08-10 This book constitutes the proceedings of the 24th International Workshop on Computer Algebra in Scientific Computing CASC 2022 which took place in Gebze Turkey in August 2022 The 20 full papers included in this book were carefully reviewed and selected from 32 submissions They focus on the theory of symbolic computation and its implementation in computer algebra systems as well as all other areas of scientific computing with regard to their benefit from or use of computer algebra methods and software

Nonarchimedean and Tropical Geometry Matthew Baker, Sam Payne, 2016-08-18 This volume grew out of two Simons Symposia on Nonarchimedean and tropical geometry which took place on the island of St John in April 2013 and in Puerto Rico in February 2015 Each meeting gathered a small group of experts working near the interface between tropical geometry and nonarchimedean analytic spaces for a

series of inspiring and provocative lectures on cutting edge research interspersed with lively discussions and collaborative work in small groups The articles collected here which include high level surveys as well as original research mirror the main themes of the two Symposia Topics covered in this volume include Differential forms and currents and solutions of Monge Ampere type differential equations on Berkovich spaces and their skeletons The homotopy types of nonarchimedean analytifications The existence of faithful tropicalizations which encode the topology and geometry of analytifications Relations between nonarchimedean analytic spaces and algebraic geometry including logarithmic schemes birational geometry and the geometry of algebraic curves Extended notions of tropical varieties which relate to Huber's theory of adic spaces analogously to the way that usual tropical varieties relate to Berkovich spaces and Relations between nonarchimedean geometry and combinatorics including deep and fascinating connections between matroid theory tropical geometry and Hodge theory

Quadratic Forms, Linear Algebraic Groups, and Cohomology Skip Garibaldi, R.

Sujatha, Venapally Suresh, 2010-07-16 *Developments in Mathematics* is a book series devoted to all areas of mathematics pure and applied The series emphasizes research monographs describing the latest advances Edited volumes that focus on areas that have seen dramatic progress or are of special interest are encouraged as well

p -Adic Analysis, Arithmetic and Singularities Carlos Galindo, Alejandro Melle Hernández, Julio José Moyano-Fernández, Wilson A. Zúñiga-Galindo, 2022-05-11

This volume contains the proceedings of the 2019 Lluís A. Santal Summer School on p -Adic Analysis Arithmetic and Singularities which was held from June 24-28 2019 at the Universidad Internacional Menéndez Pelayo Santander Spain The main purpose of the book is to present and analyze different incarnations of the local zeta functions and their multiple connections in mathematics and theoretical physics Local zeta functions are ubiquitous objects in mathematics and theoretical physics At the mathematical level local zeta functions contain geometry and arithmetic information about the set of zeros defined by a finite number of polynomials In terms of applications in theoretical physics these functions play a central role in the regularization of Feynman amplitudes and Koba-Nielsen type string amplitudes among other applications This volume provides a gentle introduction to a very active area of research that lies at the intersection of number theory p -adic analysis algebraic geometry singularity theory and theoretical physics Specifically the book introduces p -adic analysis the theory of Archimedean p -adic and motivic zeta functions singularities of plane curves and their Poincaré series among other similar topics It also contains original contributions in the aforementioned areas written by renowned specialists This book is an important reference for students and experts who want to delve quickly into the area of local zeta functions and their many connections in mathematics and theoretical physics

p -adic Geometry Matthew Baker, 2008

In recent decades p -adic geometry and p -adic cohomology theories have become indispensable tools in number theory algebraic geometry and the theory of automorphic representations The Arizona Winter School 2007 on which the current book is based was a unique opportunity to introduce graduate students to this subject Following invaluable introductions by John

Tate and Vladimir Berkovich two pioneers of non archimedean geometry Brian Conrad s chapter introduces the general theory of Tate s rigid analytic spaces Raynaud s view of them as the generic fibers of formal schemes and Berkovich spaces Samit Dasgupta and Jeremy Teitelbaum discuss the p adic upper half plane as an example of a rigid analytic space and give applications to number theory modular forms and the p adic Langlands program Matthew Baker offers a detailed discussion of the Berkovich projective line and p adic potential theory on that and more general Berkovich curves Finally Kiran Kedlaya discusses theoretical and computational aspects of p adic cohomology and the zeta functions of varieties This book will be a welcome addition to the library of any graduate student and researcher who is interested in learning about the techniques of p adic geometry BOOK JACKET

Women in Numbers Europe IV Ramla Abdellatif, Valentijn Karemaker, Lejla Smajlovic, 2024-08-07 This volume contains research and expository content based on a wide variety of topics within modern number theory and arithmetic geometry Research in this volume arises from or is connected with the Women in Numbers Europe WiNE IV conference held in summer 2022 in Utrecht The Netherlands The contents of this volume are of interest to professional mathematicians graduate students and researchers working in number theory arithmetic geometry and related areas

Buildings, Finite Geometries and Groups N.S. Narasimha Sastry, 2011-11-13 This is the Proceedings of the ICM 2010 Satellite Conference on Buildings Finite Geometries and Groups organized at the Indian Statistical Institute Bangalore during August 29 31 2010 This is a collection of articles by some of the currently very active research workers in several areas related to finite simple groups Chevalley groups and their generalizations theory of buildings finite incidence geometries modular representations Lie theory etc These articles reflect the current major trends in research in the geometric and combinatorial aspects of the study of these groups The unique perspective the authors bring in their articles on the current developments and the major problems in their area is expected to be very useful to research mathematicians graduate students and potential new entrants to these areas

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In a global defined by information and interconnectivity, the enchanting power of words has acquired unparalleled significance. Their power to kindle emotions, provoke contemplation, and ignite transformative change is truly awe-inspiring. Enter the realm of "**Algebraic Geometry And Arithmetic Curves**," a mesmerizing literary masterpiece penned by way of a distinguished author, guiding readers on a profound journey to unravel the secrets and potential hidden within every word. In this critique, we shall delve to the book is central themes, examine its distinctive writing style, and assess its profound effect on the souls of its readers.

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