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Algebraic Curves, Algebraic Manifolds and Schemes



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 **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

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 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 *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

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