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Matthew Baker



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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 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

Combinatorial Algebraic Geometry Gregory G. Smith, Bernd Sturmfels, 2017-11-17 This volume consolidates selected articles from the 2016 Apprenticeship Program at the Fields Institute part of the larger program on Combinatorial Algebraic Geometry that ran from July through December of 2016 Written primarily by junior mathematicians the articles cover a range of topics in combinatorial algebraic geometry including curves surfaces Grassmannians convexity abelian varieties and moduli spaces This book bridges the gap between graduate courses and cutting edge research by connecting historical sources computation explicit examples and new results

Ranks of Elliptic Curves and Random Matrix Theory J. B. Conrey, 2007-02-08 This comprehensive volume introduces elliptic curves and the fundamentals of modeling by a family of random matrices

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 **Arakelov Geometry** Atsushi Moriawaki, 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-Moishezon 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.

A Course in Real Algebraic Geometry Claus Scheiderer, 2024-09-12. This textbook is designed for a one-year graduate course in real algebraic geometry with a particular focus on positivity and sums of squares of polynomials. The first half of the book features a thorough introduction to ordered fields and real closed fields, including the Tarski-Seidenberg

projection theorem and transfer principle Classical results such as Artin's solution to Hilbert's 17th problem and Hilbert's theorems on sums of squares of polynomials are presented in detail Other features include careful introductions to the real spectrum and to the geometry of semialgebraic sets The second part studies Archimedean positivstellensatz in great detail and in various settings together with important applications The techniques and results presented here are fundamental to contemporary approaches to polynomial optimization Important results on sums of squares on projective varieties are covered as well The last part highlights applications to semidefinite programming and polynomial optimization including recent research on semidefinite representation of convex sets Written by a leading expert and based on courses taught for several years the book assumes familiarity with the basics of commutative algebra and algebraic varieties as can be covered in a one semester first course Over 350 exercises of all levels of difficulty are included in the book

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-Ampère 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

Arithmetic of L-functions Cristian Popescu, Karl Rubin, Alice Silverberg, Explicit Arithmetic of Jacobians of Generalized Legendre Curves Over Global Function Fields Lisa Berger, Chris Hall, Rene Pannekoek, Rachel Pries, Shahed Sharif, 2020-09-28 The authors study the Jacobian J of the smooth projective curve C of genus $r-1$ with affine model $y^r = x^{r-1}x+1$ over the function field $\mathbb{F}_q(t)$ when p is prime and $r \geq 2$ is an integer prime to p When q is a power of p and d is a positive integer the authors compute the L -function of J over $\mathbb{F}_q(t)^{1/d}$ and show that the Birch and Swinnerton-Dyer conjecture holds for J over $\mathbb{F}_q(t)^{1/d}$

Algebraic Geometry Ulrich Görtz, Torsten Wedhorn, 2010-08-06 This book introduces the reader to modern algebraic geometry It presents Grothendieck's technically demanding language of schemes that is the basis of the most important developments in the last fifty years within this area A systematic treatment and motivation of the theory is emphasized using concrete

examples to illustrate its usefulness Several examples from the realm of Hilbert modular surfaces and of determinantal varieties are used methodically to discuss the covered techniques Thus the reader experiences that the further development of the theory yields an ever better understanding of these fascinating objects The text is complemented by many exercises that serve to check the comprehension of the text treat further examples or give an outlook on further results The volume at hand is an introduction to schemes To get started it requires only basic knowledge in abstract algebra and topology Essential facts from commutative algebra are assembled in an appendix It will be complemented by a second volume on the cohomology of schemes

Birational Geometry, Rational Curves, and Arithmetic Fedor Bogomolov, Brendan

Hassett, Yuri Tschinkel, 2013-05-17 This book features recent developments in a rapidly growing area at the interface of higher dimensional birational geometry and arithmetic geometry It focuses on the geometry of spaces of rational curves with an emphasis on applications to arithmetic questions Classically arithmetic is the study of rational or integral solutions of diophantine equations and geometry is the study of lines and conics From the modern standpoint arithmetic is the study of rational and integral points on algebraic varieties over nonclosed fields A major insight of the 20th century was that arithmetic properties of an algebraic variety are tightly linked to the geometry of rational curves on the variety and how they vary in families This collection of solicited survey and research papers is intended to serve as an introduction for graduate students and researchers interested in entering the field and as a source of reference for experts working on related problems Topics that will be addressed include birational properties such as rationality unirationality and rational connectedness existence of rational curves in prescribed homology classes cones of rational curves on rationally connected and Calabi Yau varieties as well as related questions within the framework of the Minimal Model Program Stacks Project Expository Collection (SPEC) Pieter Belmans, Wei Ho, Aise Johan de Jong, 2022-10-27 A collection of expository articles on modern topics in algebraic geometry focusing on the geometry of algebraic spaces and stacks

Algebraic Geometry I: Schemes Ulrich Görtz, Torsten Wedhorn, 2020-07-27 This book introduces the reader to modern algebraic geometry It presents Grothendieck's technically demanding language of schemes that is the basis of the most important developments in the last fifty years within this area A systematic treatment and motivation of the theory is emphasized using concrete examples to illustrate its usefulness Several examples from the realm of Hilbert modular surfaces and of determinantal varieties are used methodically to discuss the covered techniques Thus the reader experiences that the further development of the theory yields an ever better understanding of these fascinating objects The text is complemented by many exercises that serve to check the comprehension of the text treat further examples or give an outlook on further results The volume at hand is an introduction to schemes To get started it requires only basic knowledge in abstract algebra and topology Essential facts from commutative algebra are assembled in an appendix It will be complemented by a second volume on the cohomology of schemes

Motivic Homotopy Theory and Refined Enumerative Geometry Federico Binda, Marc Levine, Manh

Toan Nguyen, Oliver Röndigs, 2020-03-09 This volume contains the proceedings of the Workshop on Motivic Homotopy Theory and Refined Enumerative Geometry held from May 14-18, 2018 at the University of Duisburg-Essen, Essen, Germany. It constitutes an accessible yet swift introduction to a new and active area within algebraic geometry which connects well with classical intersection theory. Combining both lecture notes aimed at the graduate student level and research articles pointing towards the manifold promising applications of this refined approach, it broadly covers refined enumerative algebraic geometry.

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, and 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.

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.

Trilogy Of Numbers And Arithmetic - Book 1: History Of Numbers And Arithmetic: An Information Perspective Mark Burgin, 2022-04-22 The book is the first in the trilogy which will bring you to the fascinating world of numbers and operations with them. Numbers provide information about myriads of things.

Together with operations numbers constitute arithmetic forming in basic intellectual instruments of theoretical and practical activity of people and offering powerful tools for representation acquisition transmission processing storage and management of information about the world The history of numbers and arithmetic is the topic of a variety of books and at the same time it is extensively presented in many books on the history of mathematics However all of them at best bring the reader to the end of the 19th century without including the developments in these areas in the 20th century and later Besides such books consider and describe only the most popular classes of numbers such as whole numbers or real numbers At the same time a diversity of new classes of numbers and arithmetic were introduced in the 20th century This book looks into the chronicle of numbers and arithmetic from ancient times all the way to 21st century It also includes the developments in these areas in the 20th century and later A unique aspect of this book is its information orientation of the exposition of the history of numbers and arithmetic

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