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

🐴 Springer

Birational Geometry And Arithmetic

Marco Brunella

Birational Geometry And Arithmetic:

  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   Algebraic Geometry S. Iitaka,1982 The aim of this book is to introduce the reader to the geometric theory of algebraic varieties in particular to the birational geometry of algebraic varieties This volume grew out of the author s book in Japanese published in 3 volumes by Iwanami Tokyo in 1977 While writing this English version the author has tried to rearrange and rewrite the original material so that even beginners can read it easily without referring to other books such as textbooks on commutative algebra The reader is only expected to know the definition of Noetherin rings and the statement of the Hilbert basis theorem The new chapters 1 2 and 10 have been expanded In particular the exposition of D dimension theory although shorter is more complete than in the old version However to keep the book of manageable size the latter parts of Chapters 6 9 and 11 have been removed I thank Mr A Sevenster for encouraging me to write this new version and Professors K K Kubota in Kentucky and P M H Wilson in Cam bridge for their careful and critical reading of the English manuscripts and typescripts I held seminars based on the material in this book at The University of Tokyo where a large number of valuable comments and suggestions were given by students Iwamiya Kawamata Norimatsu Tobita Tsushima Maeda Sakamoto Tsunoda Chou Fujiwara Suzuki and Matsuda   *Algebraic Geometry* S. Iitaka,1981-12-18 The aim of this book is to introduce the reader to the geometric theory of algebraic varieties in particular to the birational geometry of algebraic varieties This volume grew out of the author s book in Japanese published in 3 volumes by Iwanami Tokyo in 1977 While writing this English version the author has tried to rearrange and rewrite the original material so that even beginners can read it easily without referring to other books such as textbooks on commutative algebra The reader is only expected to know the definition of Noetherin rings and the statement of the Hilbert basis theorem The new chapters 1 2 and 10 have been expanded In particular the exposition of D dimension theory although

shorter is more complete than in the old version However to keep the book of manageable size the latter parts of Chapters 6 9 and 11 have been removed I thank Mr A Sevenster for encouraging me to write this new version and Professors K K Kubota in Kentucky and P M H Wilson in Cam bridge for their careful and critical reading of the English manuscripts and typescripts I held seminars based on the material in this book at The University of Tokyo where a large number of valuable comments and suggestions were given by students Iwamiya Kawamata Norimatsu Tobita Tsushima Maeda Sakamoto Tsunoda Chou Fujiwara Suzuki and Matsuda   <u>Birational Geometry of Algebraic Varieties</u> Janos Kollár,Shigefumi Mori,2010-03-24 One of the major discoveries of the past two decades in algebraic geometry is the realization that the theory of minimal models of surfaces can be generalized to higher dimensional varieties This generalization called the minimal model program or Mori s program has developed into a powerful tool with applications to diverse questions in algebraic geometry and beyond This book provides the first comprehensive introduction to the circle of ideas developed around the program the prerequisites being only a basic knowledge of algebraic geometry It will be of great interest to graduate students and researchers working in algebraic geometry and related fields   <u>Birational Geometry and Moduli Spaces</u> Elisabetta Colombo,Barbara Fantechi,Paola Frediani,Donatella Iacono,Rita Pardini,2020-02-25 This volume collects contributions from speakers at the INdAM Workshop Birational Geometry and Moduli Spaces which was held in Rome on 11 15 June 2018 The workshop was devoted to the interplay between birational geometry and moduli spaces and the contributions of the volume reflect the same idea focusing on both these areas and their interaction In particular the book includes both surveys and original papers on irreducible holomorphic symplectic manifolds Severi varieties degenerations of Calabi Yau varieties uniruled threefolds toric Fano threefolds mirror symmetry canonical bundle formula the Lefschetz principle birational transformations and deformations of diagrams of algebras The intention is to disseminate the knowledge of advanced results and key techniques used to solve open problems The book is intended for all advanced graduate students and researchers interested in the new research frontiers of birational geometry and moduli spaces   *Explicit Birational Geometry of 3-folds* Alessio Corti,Miles Reid,2000-07-27 This volume first published in 2000 is an integrated suite of papers centred around applications of Mori theory to birational geometry   <u>Birational Geometry of Algebraic Varieties</u> Janos Kollár,Shigefumi Mori,2008-02-04 One of the major discoveries of the past two decades in algebraic geometry is the realization that the theory of minimal models of surfaces can be generalized to higher dimensional varieties This generalization called the minimal model program or Mori s program has developed into a powerful tool with applications to diverse questions in algebraic geometry and beyond This book provides the first comprehensive introduction to the circle of ideas developed around the program the prerequisites being only a basic knowledge of algebraic geometry It will be of great interest to graduate students and researchers working in algebraic geometry and related fields   **Arithmetic of Higher-Dimensional Algebraic Varieties** Bjorn Poonen,Yuri Tschinkel,2004 One of the great successes of twentieth century mathematics has been the remarkable qualitative

understanding of rational and integral points on curves gleaned in part through the theorems of Mordell Weil Siegel and Faltings It has become clear that the study of rational and integral points has deep connections to other branches of mathematics complex algebraic geometry Galois and tale cohomology transcendence theory and diophantine approximation harmonic analysis automorphic forms and analytic number theory This text which focuses on higher dimensional varieties provides precisely such an interdisciplinary view of the subject It is a digest of research and survey papers by leading specialists the book documents current knowledge in higher dimensional arithmetic and gives indications for future research It will be valuable not only to practitioners in the field but to a wide audience of mathematicians and graduate students with an interest in arithmetic geometry Contributors Batyrev V V Broberg N Colliot Th l ne J L Ellenberg J S Gille P Graber T Harari D Harris J Hassett B Heath Brown R Mazur B Peyre E Poonen B Popov O N Raskind W Salberger P Scharaschkin V Shalika J Starr J Swinnerton Dyer P Takloo Bighash R Tschinkel Y Voloch J F Wittenberg O **Arakelov Geometry** Atsushi Moriwaki,2014 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 inequali **Arithmetic of Higher-Dimensional Algebraic Varieties** Bjorn Poonen,Yuri Tschinkel,2014-01-15 **Birational Geometry of Foliations** Marco Brunella,2015-03-25 The text presents the birational classification of holomorphic foliations of surfaces It discusses at length the theory developed by L G Mendes M McQuillan and the author to study foliations of surfaces in the spirit of the classification of complex algebraic surfaces **Higher Dimensional Birational Geometry** Kyoto Daigaku. Suri Kaiseki Kenkyujo,2002 This volume contains four papers written by participants of the international conference on Higher Dimensional Algebraic Varieties held at the Research Institute of Mathematical Sciences RIMS at Kyoto University Japan Rather than an ordinary proceedings of the conference the editors have compiled a selection of independent full expositions on topics of fundamental importance in algebraic geometry moduli spaces of abelian surfaces rational curves on algebraic varieties 3 dimensional flips and the theory of elliptic fibrations The authors including a Fields medalist and the founder of fundamental results in algebraic geometry discuss the topics fully giving complete proofs of new results technical preparations and an historical overview The book is suitable for graduate students and research mathematicians interested in algebraic geometry Automorphisms in Birational and Affine Geometry Ivan Cheltsov,Ciro Ciliberto,Hubert Flenner,James McKernan,Yuri G. Prokhorov,Mikhail Zaidenberg,2014-06-11 The main focus of this volume is on the problem of describing the automorphism groups of affine and projective varieties a classical subject in algebraic geometry where in both cases the automorphism group is often infinite dimensional The collection covers a wide range of

topics and is intended for researchers in the fields of classical algebraic geometry and birational geometry Cremona groups as well as affine geometry with an emphasis on algebraic group actions and automorphism groups It presents original research and surveys and provides a valuable overview of the current state of the art in these topics Bringing together specialists from projective birational algebraic geometry and affine and complex algebraic geometry including Mori theory and algebraic group actions this book is the result of ensuing talks and discussions from the conference Groups of Automorphisms in Birational and Affine Geometry held in October 2012 at the CIRM Levico Terme Italy The talks at the conference highlighted the close connections between the above mentioned areas and promoted the exchange of knowledge and methods from adjacent fields   *Birational Geometry of Algebraic Varieties* ,1988   *Birational Geometry, Kähler–Einstein Metrics and Degenerations* Ivan Cheltsov,Xiuxiong Chen,Ludmil Katzarkov,Jihun Park,2023-05-23 This book collects the proceedings of a series of conferences dedicated to birational geometry of Fano varieties held in Moscow Shanghai and Pohang The conferences were focused on the following two related problems existence of K hler Einstein metrics on Fano varieties degenerations of Fano varieties on which two famous conjectures were recently proved The first is the famous Borisov Alexeev Borisov Conjecture on the boundedness of Fano varieties proved by Caucher Birkar for which he was awarded the Fields medal in 2018 and the second one is the arguably even more famous Tian Yau Donaldson Conjecture on the existence of K hler Einstein metrics on smooth Fano varieties and K stability which was proved by Xiuxiong Chen Sir Simon Donaldson and Song Sun The solutions for these longstanding conjectures have opened new directions in birational and K hler geometries These research directions generated new interesting mathematical problems attracting the attention of mathematicians worldwide These conferences brought together top researchers in both fields birational geometry and complex geometry to solve some of these problems and understand the relations between them The result of this activity is collected in this book which contains contributions by sixty nine mathematicians who contributed forty three research and survey papers to this volume Many of them were participants of the Moscow Shanghai Pohang conferences while the others helped to expand the research breadth of the volume the diversity of their contributions reflects the vitality of modern Algebraic Geometry   **Algebraic Geometry and Number Theory** Hussein Mourtada,Celal Cem Sarıoğlu,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 Groups and Their Birational

<u>Invariants</u> V. E. Voskresenskii,V. E. VoskresenskiuI and Boris Kunyavski,2011-10-06 Since the late 1960s methods of birational geometry have been used successfully in the theory of linear algebraic groups especially in arithmetic problems This book which can be viewed as a significant revision of the author s book Algebraic Tori Nauka Moscow 1977 studies birational properties of linear algebraic groups focusing on arithmetic applications The main topics are forms and Galois cohomology the Picard group and the Brauer group birational geometry of algebraic tori arithmetic of algebraic groups Tamagawa numbers R equivalence projective toric varieties invariants of finite transformation groups and index formulas Results and applications are recent There is an extensive bibliography with additional comments that can serve as a guide for further reading **Moduli Spaces and Arithmetic Geometry (Kyoto, 2004)** Shigeru Mukai,2006 Since its birth algebraic geometry has been closely related to and deeply motivated by number theory Particularly the modern study of moduli spaces and arithmetic geometry have many important techniques and ideas in common With this close relation in mind the RIMS conference Moduli Spaces and Arithmetic Geometry was held at Kyoto University during September 8 15 2004 as the 13th International Research Institute of the Mathematical Society of Japan This volume is the outcome of this conference and consists of thirteen papers by invited speakers including C Soul A Beauville and C Faber and participants All papers with two exceptions by C Voisin and Yoshinori Namikawa treat moduli problem and or arithmetic geometry Algebraic curves Abelian varieties algebraic vector bundles connections and D modules are the subjects of those moduli papers Arakelov geometry and rigid geometry are studied in arithmetic papers In the two exceptions integral Hodge classes on Calabi Yau threefolds and symplectic resolutions of nilpotent orbits are studied Published by Mathematical Society of Japan and distributed by World Scientific Publishing Co for all markets except North America *Birational Geometry of Hypersurfaces* Andreas Hochenegger,Manfred Lehn,Paolo Stellari,2019-10-08 Originating from the School on Birational Geometry of Hypersurfaces this volume focuses on the notion of stable rationality of projective varieties and more specifically hypersurfaces in projective spaces and provides a large number of open questions techniques and spectacular results The aim of the school was to shed light on this vast area of research by concentrating on two main aspects 1 Approaches focusing on stable rationality using deformation theory and Chow theoretic tools like decomposition of the diagonal 2 The connection between K3 surfaces hyperk hler geometry and cubic fourfolds which has both a Hodge theoretic and a homological side Featuring the beautiful lectures given at the school by Jean Louis Colliot Th l ne Daniel Huybrechts Emanuele Macr and Claire Voisin the volume also includes additional notes by J nos Koll r and an appendix by Andreas Hochenegger **Arithmetic Algebraic Geometry** G., van der Geer,F. Oort,Joseph Steenbrink,1991-01-01 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 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

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Table of Contents Birational Geometry And Arithmetic

1. Understanding the eBook Birational Geometry And Arithmetic
    - The Rise of Digital Reading Birational Geometry And Arithmetic
    - Advantages of eBooks Over Traditional Books
2. Identifying Birational Geometry And Arithmetic
    - Exploring Different Genres
    - Considering Fiction vs. Non-Fiction
    - Determining Your Reading Goals
3. Choosing the Right eBook Platform
    - Popular eBook Platforms
    - Features to Look for in an Birational Geometry And Arithmetic
    - User-Friendly Interface
4. Exploring eBook Recommendations from Birational Geometry And Arithmetic
    - Personalized Recommendations
    - Birational Geometry And Arithmetic User Reviews and Ratings

13. Promoting Lifelong Learning
    - Utilizing eBooks for Skill Development
    - Exploring Educational eBooks
14. Embracing eBook Trends
    - Integration of Multimedia Elements
    - Interactive and Gamified eBooks

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