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**BIRATIONAL  
GEOMETRY OF  
ALGEBRAIC VARIETIES**

JÁNOS KOLLÁR & SHIGEFUMI MORI



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# Birational Algebraic Geometry

**Alessio Corti, Miles Reid**



## **Birational Algebraic Geometry:**

**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 Noetherian 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 Cambridge 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 *Methods of algebraic geometry* W. V. D. Hodge, D.

Pedoe, 1954 **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

**Birational Geometry of Algebraic Varieties**, 1988 Higher Dimensional Birational Geometry Kyoto Daigaku. Suri Kaiseiki 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

**Birational Algebraic Geometry** Wei-Liang Chow, Yujiro Kawamata, Vyacheslav V. Shokurov, 1997 Ten research reports illustrate the many directions the field is taking and feature problems on special models such as Fanos and their fibrations adjunctions and subadjunction formulae and projectivity and projective embeddings Also included are a eulogy and bibliography for the mathematician Chow who was at Johns Hopkins since the 1940s No index Annotation copyrighted by Book News Inc Portland OR *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 Groups and Their Birational Invariants* Valentin Evgen'evich Voskresenskiĭ, 1998 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 studies birational properties of linear algebraic groups focusing on arithmetic applications *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 Noetherian 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 Cambridge 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 **Birational Geometry of Algebraic Varieties** 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 **Birational Geometry and Moduli Spaces** 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. Birational Geometry of Algebraic Varieties 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. 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. Algebraic Geometry Robin Hartshorne, 2013-06-29 Robin Hartshorne studied algebraic geometry with Oscar Zariski and David Mumford at Harvard and with J. P. Serre and A. Grothendieck in Paris. After receiving his Ph.D. from Princeton in 1963, Hartshorne became a Junior Fellow at Harvard, then taught there for several years. In 1972 he moved to California where he is now Professor at the University of California at Berkeley. He is the author of Residues and Duality (1966), Foundations of Projective Geometry (1968), Ample Subvarieties of

Algebraic Varieties 1970 and numerous research titles His current research interest is the geometry of projective varieties and vector bundles He has been a visiting professor at the College de France and at Kyoto University where he gave lectures in French and in Japanese respectively Professor Hartshorne is married to Edie Churchill educator and psychotherapist and has two sons He has travelled widely speaks several foreign languages and is an experienced mountain climber He is also an accomplished amateur musician he has played the flute for many years and during his last visit to Kyoto he began studying the shakuhachi

**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

**Methods of Algebraic Geometry: book 5. Birational geometry** William Vallance Douglas Hodge, Daniel Pedoe, 1954

*Algebraic Geometry I* V.I. Danilov, V.V. Shokurov, 2006-12-15 To sum up this book helps to learn algebraic geometry in a short time its concrete style is enjoyable for students and reveals the beauty of mathematics Acta Scientiarum Mathematicarum

*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 Kähler 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 Kähler 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 Kähler 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

**Cohomological and Geometric Approaches to Rationality Problems** Fedor Bogomolov, Yuri Tschinkel, 2009-11-03 Rationality problems link algebra to geometry and the difficulties involved depend on the transcendence degree of  $K$  over  $k$  or geometrically on the dimension of the variety A major success in 19th century algebraic geometry was a complete solution of the rationality problem in dimensions one and two over algebraically closed ground fields of characteristic zero Such advances has led to many interdisciplinary applications to

algebraic geometry This comprehensive book consists of surveys of research papers by leading specialists in the field and gives indications for future research in rationality problems Topics discussed include the rationality of quotient spaces cohomological invariants of quasi simple Lie type groups rationality of the moduli space of curves and rational points on algebraic varieties This volume is intended for researchers mathematicians and graduate students interested in algebraic geometry and specifically in rationality problems Contributors F Bogomolov T Petrov Y Tschinkel Ch B hning G Catanese I Cheltsov J Park N Hoffmann S J Hu M C Kang L Katzarkov Y Prokhorov A Pukhlikov      *Birational Geometry of Algebraic Varieties* Janos Kollár, Shigefumi Mori, 1998-09-17 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

## Decoding **Birational Algebraic Geometry**: Revealing the Captivating Potential of Verbal Expression

In an era characterized by interconnectedness and an insatiable thirst for knowledge, the captivating potential of verbal expression has emerged as a formidable force. Its ability to evoke sentiments, stimulate introspection, and incite profound transformations is genuinely awe-inspiring. Within the pages of "**Birational Algebraic Geometry**," a mesmerizing literary creation penned with a celebrated wordsmith, readers embark on an enlightening odyssey, unraveling the intricate significance of language and its enduring impact on our lives. In this appraisal, we shall explore the book's central themes, evaluate its distinctive writing style, and gauge its pervasive influence on the hearts and minds of its readership.

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