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in the middle of  
the best options  
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~~Some elementary  
remarks about  
close complex  
manifolds~~

~~Dennis Sullivan~~

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*Kawamata:*

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*geometry and*

*derived*

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Geometry of the  
moduli space of

curves – Rahul

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ICM2018

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**geometry 2 Two**

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---

Fields Medal –

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7th HLF –

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Birational Geometry And

---

Bernd Sturmfels

(8/28/18):

Learning

algebraic

varieties from

samples

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Foundation

presents the HLF

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Kontsevich Joe

Harris |

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~~Rationality And~~

~~questions in~~

~~algebraic~~

~~geometry~~ Contact

Structures,

foliations and

group actions -

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**Geometry and**

**Orbifold Pairs :**

**Arithmetic and**

**hyperbolic...**

**(Lecture 2) by**



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**Frederic Campa**

*2018 Fields*

*Medal Recipient*

*Caucher Birkar -*

*Professor,*

*University of*

*Cambridge M00G*

*SIRIN - Demo and*

*Sounds Caucher*

*Birkar's Second*

*Fields Medal*

*Ceremony —*

*ICM2018 Fields*

*Medal — Peter*

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Scholze – Geometry And

*ICM2018 Math*

*with Charlotte*

*Mason Maryam*

~~Mirzakhani wins~~

~~2014 Fields~~

~~medal – first~~

~~woman to do so~~

**Mathematical**

**Informatics at**

**the University**

**of Tokyo Mikhail**

**Gromov - 1/4**

**Old, New and**

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Unknown around  
Scalar Curvature

---

Maryam

Mirzakhani,

Dynamics Moduli

Spaces of Curves

IAnna Cadoret -

*Galois*

*representations*

*and invariants*

*in arithmetic*

*geometry*

~~SummerSchool~~

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~~"Arithmetic  
geometry"~~

~~Tschinkel~~

~~Introduction |~~

~~2006 Birational~~

~~Geometry and~~

~~Orbifold Pairs~~

~~:Arithmetic and~~

~~hyperbolic...~~

~~(Lecture 3) by~~

~~Frederic Campana~~

~~Brendan Hassett~~

~~(July 24, 2020):~~

~~Symbols,~~

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~~Geometry And  
geometry, and  
computations~~

---

Residual

Intersections in  
Geometry and  
Algebra by David  
Eisenbud

~~Scholar~~

~~Lectures:~~

~~Introduction to  
Birational  
Geometry in  
Positive~~

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~~Characteristic~~

~~Lecture 1~~

*Equivariant*

*birational*

*geometry and*

*modular symbols*

*Kyoto U.*

*"Generic*

*vanishing and*

*the birational*

*geometry of*

*irregular*

*varieties" L.4*

Yifeng Liu - On

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the Beilinson-  
Bloch-Kato  
conjecture for  
Rankin-Selberg  
motives

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Arithmetic~~

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and Arithmetic  
(Simons  
Symposia) 2013

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Geometry And

Bogomolov,

Brendan Hassett,

Yuri Tschinkel

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~~Birational~~

*Page 16/102*



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~~Geometry, And  
Rational Curves,  
and Arithmetic~~

...

About this book.

This book

features recent

developments in

a rapidly

growing area at

the interface of

higher-

dimensional

birational

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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

Read Free  
Birational  
Geometry and  
Integral  
solutions of  
diophantine  
equations and  
geometry is the  
study of lines  
and conics.

~~Birational  
Geometry,  
Rational Curves,  
and Arithmetic~~

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Birational And

geometry and  
arithmetic July

2012. Basic

questions Let  $F$

be a field and  $X$  a  
smooth

projective

algebraic

variety over  $F$ .

We are

interested in

rational points

$X(F)$ . Speci

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Geometry, Existence

Density

Distribution

with respect to

heights of

particular

interest

are small fields:  $F$

$= F$

~~Birational~~

~~geometry and~~

~~arithmetic — Dur~~

If the field of

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constants is  
algebraically  
non-closed, the  
problems in  
birational  
geometry are  
closely  
connected with  
the arithmetic  
of algebraic  
varieties (cf.  
Algebraic  
varieties,  
arithmetic of).

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The important problem in such a case is that of describing the birational  $k$ -forms on a given variety  $V$  over a field  $k$ , in particular if, say,  $V = \mathbb{P}^n_k$  is a projective space over  $k$  [2].

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Geometry And  
~~Birational  
Arithmetic  
geometry  
Encyclopedia of  
Mathematics~~

In mathematics,  
birational  
geometry is a  
field of  
algebraic  
geometry in  
which the goal  
is to determine  
when two



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Geometry And

varieties are  
isomorphic

outside lower-  
dimensional

subsets. This  
amounts to

studying

mappings that  
are given by

rational

functions rather  
than

polynomials; the

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map may fail to be defined where the rational functions have poles.

~~Birational  
geometry~~

~~Wikipedia~~

This volume  
collects  
contributions  
from speakers at  
the INdAM

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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

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Geometry And

contributions of  
the volume

reflect the same  
idea, focusing  
on both these  
areas and their  
interaction.

~~Birational~~

~~Geometry and~~

~~Moduli Spaces |~~

~~Elisabetta~~

~~Colombo . . .~~

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Birational And

Geometry,

Rational Curves,

and Arithmetic:

Bogomolov,

Fedor, Hassett,

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Tschinkel, Yuri:

Amazon.sg: Books

~~Birational~~

~~Geometry,~~

~~Rational Curves,~~

~~and Arithmetic~~

# Read Free Birational Geometry And

Let  $X$  be a complex variety, I call  
birational automorphism of  $X$  a birational map  $X \dashrightarrow X$  and  $\text{Bir}(X)$  the group of birational automorphism of  $X$ . If  $X$  is

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rational clearly

$\text{Bir}(X) \cong \text{Bir}(\mathbb{P}^N)$

, where  $N$  is the dimension of  $X$ ;  $\text{Bir}(\mathbb{P}^N)$  is the Cremona group.

~~algebraic~~

~~geometry~~

~~Birational~~

~~automorphism for~~

...

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Birational And

Geometry: 1.

Geometric and

Arithmetic

theory of

Rationally

Connected

Varieties. 2.

Minimal Model

Program and

Classification

of varieties. 3.

Stability. 4.

Topology and



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Singularities.

~~Chenyang Xu's  
Homepage~~

~~Mathematics~~

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by Bogomolov,  
Fedor, Hassett,  
Brendan,  
Tschinkel, Yuri

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~~Birational  
Geometry,  
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~~and Arithmetic~~

by . . .

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geometry is a

field of

algebraic

geometry the

goal of which is

to determine

when two

algebraic

varieties are

isomorphic

outside lower-

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Birational

Geometry And

subsets. This  
amounts to

studying

mappings that

are given by

rational

functions rather

than

polynomials; the

map may fail to

be defined where

the rational

functions have

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poles.  
Geometry And  
Arithmetic

~~Newest 'birational  
al-geometry'  
Questions—  
MathOverflow  
Birational  
Geometry and  
Moduli Spaces  
are two  
important areas  
of Algebraic  
Geometry that  
have recently~~

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Geometry And

witnessed a  
flurry of  
activity and

substantial

progress on many

fundamental open

questions. In

this program we

aim to bring

together key

researchers in

these and

related areas to

highlight the

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Geometry And  
Arithmetic  
recent exciting  
progress and to  
explore future  
avenues of  
research.

~~Birational  
Geometry and  
Moduli Spaces |  
Clay Mathematics~~

~~---~~

Place: Institute  
of Mathematics  
and Informatics,

*Page 39/102*

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Bulgarian And

Academy of

Sciences Type:

Educational

Workshop

Registration

Deadline: May

29, 2020

IMPORTANT:

Because of the

complicated

situation

concerning the

spread of



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COVID-19, the

workshop on

Birational

Geometry will be

postponed. The

new dates will

be announced

later. Please

follow the

website for the

latest

information.

Stay safe and

stay ...

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Birational  
Geometry And  
~~Birational  
Arithmetic  
Geometry—  
International  
Center for ...~~

Classically,  
arithmetic is  
the study of  
rational or  
integral  
solutions of  
diophantine  
equations and  
geometry is the

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Birational

Geometry And  
Arithmetic  
study of lines  
and conics. From  
the modern  
standpoint,  
arithmetic is  
the study of  
rational and  
integral points  
on algebraic  
varieties over  
nonclosed  
fields.

~~Birational~~

*Page 43/102*

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~~Geometry, And  
Rational Curves,  
and Arithmetic  
eBook . . .~~

Now for higher  
dimensional,  
there is a  
theorem that  
birational  
varieties may be  
blown up along  
sequences of  
smooth centres  
with codimension

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at least  $\geq 2$  to

get a common  
variety. Then

because the  
codimension is  
at least  $\geq 2$  we

can apply the  
above argument;  
i.e. producing a  
rational section  
then seeing it  
has to be an  
actual section.

# Read Free Birational Geometry And Arithmetic

This book features recent developments in a rapidly growing area at the interface of higher-dimensional birational geometry and arithmetic geometry. It

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Geometry And  
Arithmetic  
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

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Geometry And

diophantine equations and

arithmetic 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



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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

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Geometry And  
Arithmetic  
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

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reference for  
experts working  
on related  
problems. Topics  
that will be  
addressed  
include:  
birational  
properties such  
as rationality,  
unirationality,  
and rational  
connectedness,  
existence of

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Birational  
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

# Read Free Birational Model Program. Arithmetic

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

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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

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Geometry, and  
continues with  
Arakelov  
geometry of  
arithmetic  
surfaces and hig  
her-dimensional  
varieties. The  
book includes  
such fundamental  
results as  
arithmetic  
Hilbert-Samuel  
formula,

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Arithmetic Nakai-

Moishezon

criterion,

arithmetic

Bogomolov

inequality, the

existence of

small sections,

the continuity

of arithmetic

volume function,

the Lang-

Bogomolov

conjecture and



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Birational

Geometry And

Arithmetic  
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

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Geometry and the  
language of  
schemes.

This book is a  
general  
introduction to  
the theory of  
schemes,  
followed by  
applications to  
arithmetic  
surfaces and to  
the theory of

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Geometry and

Arithmetic  
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

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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

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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

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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

# Read Free Birational Arithmetic And 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

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Curves is And

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



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Geometry And  
material on  
commutative  
Arithmetic  
algebra. The  
prerequisites  
are therefore  
few, and the  
book should suit  
a graduate  
student. It  
contains many  
examples and  
nearly 600  
exercises.

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Geometry And  
Arithmetic  
This is Part 1  
of a two-volume  
set. Since Oscar  
Zariski

organized a  
meeting in 1954,  
there has been a  
major algebraic  
geometry meeting  
every decade:

Woods Hole  
(1964), Arcata  
(1974), Bowdoin  
(1985), Santa

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Cruz (1995), and  
Seattle (2005).

The American  
Mathematical  
Society has  
supported these  
summer  
institutes for  
over 50 years.  
Their  
proceedings  
volumes have  
been extremely  
influential,

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Summarizing the

state of  
algebraic

geometry at the

time and

pointing to

future

developments.

The most recent

Summer Institute

in Algebraic

Geometry was

held July 2015

at the

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Geometry And

Utah in Salt

Lake City,

sponsored by the

AMS with the

collaboration of

the Clay

Mathematics

Institute. This

volume includes

surveys growing

out of plenary

lectures and

seminar talks

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Geometry And

meeting. Some

present a broad

overview of

their topics,

while others

develop a

distinctive

perspective on

an emerging

topic. Topics

span both

complex

algebraic

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Geometry and

Arithmetic

arithmetic

questions,

specifically,

analytic

techniques,

enumerative

geometry, moduli

theory, derived

categories,

birational

geometry,

tropical

geometry,

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Birational

Diophantine And

questions,  
geometric

representation

theory,

characteristic

and  $p$ -adic tools,

etc. The

resulting

articles will be

important

references in

these areas for

years to come.



# Read Free Birational Geometry And

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

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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

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particular, the  
book includes  
both surveys and  
original papers  
on irreducible  
holomorphic  
symplectic  
manifolds,  
Severi  
varieties,  
degenerations of  
Calabi-Yau  
varieties,  
uniruled

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Geometry, And

Arithmetic

threefolds, toric Fano threefolds, mirror symmetry, canonical bundle formula, the Lefschetz principle, birational transformations, and deformations of diagrams of algebras. The intention is to

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Geometry And  
Arithmetic  
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

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frontiers of  
birational  
geometry and  
moduli spaces.

This lecture  
notes volume  
presents  
significant  
contributions  
from the  
“Algebraic  
Geometry and  
Number Theory”

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Geometry And

Arithmetic  
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,

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Geometry And

Arithmetic  
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



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Geometry and/or  
number theory.

All

contributions  
combine main  
concepts and  
techniques with  
motivating  
examples and  
illustrative  
problems for the  
covered  
subjects.

Naturally, the

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Geometry And  
Arithmetic  
book will also  
be of interest  
to researchers  
working in  
algebraic  
geometry, number  
theory and  
related fields.

Since the late  
1960s, methods  
of birational  
geometry have  
been used

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Geometry And  
Arithmetic  
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,

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Geometry (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,

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Geometry And

Arithmetic  
geometry of  
algebraic tori,  
arithmetic of  
algebraic  
groups, Tamagawa  
numbers,  
 $\mathbb{R}$ -equivalence,  
projective toric  
varieties,  
invariants of  
finite  
transformation  
groups, and

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Geometry And

Arithmetic  
index-formulas.  
Results and  
applications are  
recent. There is  
an extensive  
bibliography  
with additional  
comments that  
can serve as a  
guide for  
further reading.

Arithmetic  
algebraic

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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

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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



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Arithmetic And  
geometry and  
Nevanlinna  
theory, or more  
precisely  
between  
diophantine  
approximation  
theory and the  
value  
distribution  
theory of  
holomorphic  
maps. Research

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Geometry And

Arithmetic  
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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Geometry And  
Arithmetic  
Since the late  
1960s, methods  
of birational  
geometry have  
been used  
successfully in  
the theory of  
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problems. This  
book--which can  
be viewed as a

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revision of the  
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properties of

linear algebraic

groups focusing

on arithmetic

applications.

The main topics

are forms and

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Galois Geometry And

cohomology, the  
Picard group and  
the Brauer

group,

birational

geometry of

algebraic tori,

arithmetic of

algebraic

groups, Tamagawa

numbers, R-

equivalence,

projective toric

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Birational  
varieties, And  
invariants.

This book is a  
general  
introduction to  
the theory of  
schemes,  
followed by  
applications to  
arithmetic  
surfaces and to  
the theory of  
reduction of

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Birational

algebraic And

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

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Birational

Geometry And  
Arithmetic  
the more global  
aspect: coherent  
sheaves and a  
finiteness  
theorem for  
their cohomology  
groups. Then  
follows a  
chapter on  
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dualizing  
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