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A Series of Modern Surveys in Mathematics

János Kollár

# Rational Curves on Algebraic Varieties





# **Rational Curves On Algebraic Varieties**

**Mauro Beltrametti** 

#### **Rational Curves On Algebraic Varieties:**

Rational Curves on Algebraic Varieties Janos Kollar, 2013-04-09 The aim of this book is to provide an introduction to the structure theory of higher dimensional algebraic varieties by studying the geometry of curves especially rational curves on varieties The main applications are in the study of Fano varieties and of related varieties with lots of rational curves on them This Ergebnisse volume provides the first systematic introduction to this field of study The book contains a large number of examples and exercises which serve to illustrate the range of the methods and also lead to many open questions of Rational Curves on Algebraic Varieties János Kollár, 1996 Higher Dimensional Varieties and Rational Points K. Böröczky, János Kollár, Szamuely Tamas, 2003-07-10 Exploring the connections between arithmetic and geometric properties of algebraic varieties has been the object of much fruitful study for a long time especially in the case of curves The aim of the Summer School and Conference on Higher Dimensional Varieties and Rational Points held in Budapest Hungary during September 2001 was to bring together students and experts from the arithmetic and geometric sides of algebraic geometry in order to get a better understanding of the current problems interactions and advances in higher dimension The lecture series and conference lectures assembled in this volume give a comprehensive introduction to students and researchers in algebraic geometry and in related fields to the main ideas of this rapidly developing area Problems on Rational Points and Rational Curves on **Rational Curves on Algebraic Varieties** Matthew F. DeLand, 2009 Algebraic Varieties Ûrij Ivanovič Manin,1994 Algebraic Geometry I V.I. Danilov, V.V. Shokurov, 1998-03-17 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 **Geometry of Higher Dimensional Algebraic Varieties** Thomas Peternell, Joichi Miyaoka, 2012-12-06 This book is based on lecture notes of a seminar of the Deutsche Mathematiker Vereinigung held by the authors at Oberwolfach from April 2 to 8 1995 It gives an introduction to the classification theory and geometry of higher dimensional complex algebraic varieties focusing on the tremendeous developments of the subject in the last 20 years. The work is in two parts with each one preceded by an introduction describing its contents in detail. Here it will suffice to simply ex plain how the subject matter has been divided Cum grano salis one might say that Part 1 Miyaoka is more concerned with the algebraic methods and Part 2 Peternell with the more analytic aspects though they have unavoidable overlaps because there is no clearcut distinction between the two methods Specifically Part 1 treats the deformation theory existence and geometry of rational curves via characteristic p while Part 2 is principally concerned with vanishing theorems and their geometric applications Part I Geometry of Rational Curves on Varieties Yoichi Miyaoka RIMS Kyoto University 606 01 Kyoto Japan Introduction Why Rational Curves This note is based on a series of lectures given at the Mathematisches Forschungsin stitut at Oberwolfach Germany as a part of the DMV seminar Mori Theory The construction of minimal models was discussed by T Algebraic Geometry I V.I. Danilov, V.V. Shokurov, 2013-12-01 From the reviews This

volume consists of two papers The first written by V V Shokurov is devoted to the theory of Riemann surfaces and algebraic curves It is an excellent overview of the theory of relations between Riemann surfaces and their models complex algebraic curves in complex projective spaces The second paper written by V I Danilov discusses algebraic varieties and schemes I can recommend the book as a very good introduction to the basic algebraic geometry European Mathematical Society Newsletter 1996 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 Rational Points, Rational Curves, and Entire Holomorphic Curves on Projective Varieties Carlo Gasbarri, Steven Lu, Mike Roth, Yuri Tschinkel, 2015-12-22 This volume contains papers from the Short Thematic Program on Rational Points Rational Curves and Entire Holomorphic Curves and Algebraic Varieties held from June 3 28 2013 at the Centre de Recherches Math matigues Universit de Montr al Qu bec Canada The program was dedicated to the study of subtle interconnections between geometric and arithmetic properties of higher dimensional algebraic varieties. The main areas of the program were among others proving density of rational points in Zariski or analytic topology on special varieties understanding global geometric properties of rationally connected varieties as well as connections between geometry and algebraic dynamics exploring new geometric techniques in Diophantine approximation This book is co published with the Centre de Recherches Math matiques 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 **Lectures on Curves, Surfaces and Projective Varieties**, This book offers a wide ranging introduction to algebraic geometry along classical lines It consists of lectures on topics in classical algebraic geometry including the basic properties of projective algebraic varieties linear systems of hypersurfaces algebraic curves with special emphasis on rational curves linear series on algebraic curves Cremona transformations rational surfaces and notable examples of special varieties like the Segre Grassmann and Veronese varieties An integral part and special

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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 Pythagorean-Hodograph Curves: Algebra and Geometry Inseparable Rida T Farouki, 2008-02-01

By virtue of their special algebraic structures Pythagorean hodograph PH curves offer unique advantages for computer aided design and manufacturing robotics motion control path planning computer graphics animation and related fields This book offers a comprehensive and self contained treatment of the mathematical theory of PH curves including algorithms for their

construction and examples of their practical applications Special features include an emphasis on the interplay of ideas from algebra and geometry and their historical origins detailed algorithm descriptions and many figures and worked examples The book may appeal in whole or in part to mathematicians computer scientists and engineers Rational Points on Algebraic Varieties Emmanuel Peyre, Yuri Tschinkel, 2012-12-06 This book is devoted to the study of rational and integral points on higher dimensional algebraic varieties It contains carefully selected research papers addressing the arithmetic geometry of varieties which are not of general type with an emphasis on how rational points are distributed with respect to the classical Zariski and adelic topologies The present volume gives a glimpse of the state of the art of this rapidly expanding domain in arithmetic geometry. The techniques involve explicit geometric constructions ideas from the minimal model program in algebraic geometry as well as analytic number theory and harmonic analysis on adelic groups Algebraic Geometry III A.N. Parshin, I.R. Shafarevich, 2013-04-17 Starting with the end of the seventeenth century one of the most interesting directions in mathematics attracting the attention as I Bernoulli Euler Jacobi Legendre Abel among others has been the study of integrals of the form r dz l Aw T TO W where w is an algebraic function of z Such integrals are now called abelian Let us examine the simplest instance of an abelian integral one where w is defined by the polynomial equation 1 where the polynomial on the right hand side has no multiple roots In this case the function Aw is called an elliptic integral The value of Aw is determined up to mv nv where v and v are complex numbers and m and n are 1 2 1 2 integers The set of linear combinations mv nv forms a lattice H C C and 1 2 so to each elliptic integral Aw we can associate the torus C H 2 On the other hand equation 1 defines a curve in the affine plane C 2 2 z w Let us complete C2 to the projective plane IP IP C by the addition of the line at infinity and let us also complete the curve defined 2 by equation 1 The result will be a nonsingular closed curve E C lP which can also be viewed as a Riemann surface Such a curve is called an elliptic curve Algebraic **Geometry and Arithmetic Curves** \(\pi\),2002 Based on the author's course for first year students this well written text explains how the tools of algebraic geometry and of number theory can be applied to a study of curves The book starts by introducing the essential background material and includes 600 exercises

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