



Algebraic Geometry and Singularities

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Algebraic Geometry Singularities

**Caroline Grant Melles, Ruth Ingrid
Michler**



Algebraic Geometry Singularities:

Introduction to Singularities Shihoko Ishii, 2018-09-21 This book is an introduction to singularities for graduate students and researchers Algebraic geometry is said to have originated in the seventeenth century with the famous work *Discours de la methode pour bien conduire sa raison et chercher la verite dans les sciences* by Descartes In that book he introduced coordinates to the study of geometry After its publication research on algebraic varieties developed steadily Many beautiful results emerged in mathematicians works First mostly non singular varieties were studied In the past three decades however it has become clear that singularities are necessary for us to have a good description of the framework of varieties For example it is impossible to formulate minimal model theory for higher dimensional cases without singularities A remarkable fact is that the study of singularities is developing and people are beginning to see that singularities are interesting and can be handled by human beings This book is a handy introduction to singularities for anyone interested in singularities The focus is on an isolated singularity in an algebraic variety After preparation of varieties sheaves and homological algebra some known results about 2 dimensional isolated singularities are introduced Then a classification of higher dimensional isolated singularities is shown according to plurigenera and the behavior of singularities under a deformation is studied In the second edition brief descriptions about recent remarkable developments of the researches are added as the last chapter

Resolution of Singularities Steven Dale Cutkosky, 2004 The notion of singularity is basic to mathematics In algebraic geometry the resolution of singularities by simple algebraic mappings is truly a fundamental problem It has a complete solution in characteristic zero and partial solutions in arbitrary characteristic The resolution of singularities in characteristic zero is a key result used in many subjects besides algebraic geometry such as differential equations dynamical systems number theory the theory of mathematical D modules topology and mathematical physics This book is a rigorous but instructional look at resolutions A simplified proof based on canonical resolutions is given for characteristic zero There are several proofs given for resolution of curves and surfaces in characteristic zero and arbitrary characteristic Besides explaining the tools needed for understanding resolutions Cutkosky explains the history and ideas providing valuable insight and intuition for the novice or expert There are many examples and exercises throughout the text The book is suitable for a second course on an exciting topic in algebraic geometry A core course on resolutions is contained in Chapters 2 through 6 Additional topics are covered in the final chapters The prerequisite is a course covering the basic notions of schemes and sheaves

Algebraic Geometry and Singularities Antonio Campillo Lopez, Luis Narvaez Macarro, 1995-01-26 The focus of this volume lies on singularity theory in algebraic geometry It includes papers documenting recent and original developments and methods in subjects such as resolution of singularities D module theory singularities of maps and geometry of curves The papers originate from the Third International Conference on Algebraic Geometry held in La Rabida Spain in December 1991 Since then the articles have undergone a meticulous process of refereeing and improvement and they have been organized into a

comprehensive account of the state of the art in this field **Lectures on Resolution of Singularities (AM-166)** János Kollár, 2007-02-25 Resolution of singularities is a powerful and frequently used tool in algebraic geometry In this book János Kollár provides a comprehensive treatment of the characteristic 0 case He describes more than a dozen proofs for curves many based on the original papers of Newton Riemann and Noether Kollár goes back to the original sources and presents them in a modern context He addresses three methods for surfaces and gives a self contained and entirely elementary proof of a strong and functorial resolution in all dimensions Based on a series of lectures at Princeton University and written in an informal yet lucid style this book is aimed at readers who are interested in both the historical roots of the modern methods and in a simple and transparent proof of this important theorem **Introduction to Lipschitz Geometry of Singularities** Walter Neumann, Anne Pichon, 2021-01-11 This book presents a broad overview of the important recent progress which led to the emergence of new ideas in Lipschitz geometry and singularities and started to build bridges to several major areas of singularity theory Providing all the necessary background in a series of introductory lectures it also contains Pham and Teissier's previously unpublished pioneering work on the Lipschitz classification of germs of plane complex algebraic curves While a real or complex algebraic variety is topologically locally conical it is in general not metrically conical there are parts of its link with non trivial topology which shrink faster than linearly when approaching the special point The essence of the Lipschitz geometry of singularities is captured by the problem of building classifications of the germs up to local bi Lipschitz homeomorphism The Lipschitz geometry of a singular space germ is then its equivalence class in this category The book is aimed at graduate students and researchers from other fields of geometry who are interested in studying the multiple open questions offered by this new subject **Algebraic Geometry and Singularities** Antonio Campillo Lopez, Luis Narvaez Macarro, 1995-01-26 The volume contains both general and research papers Among the first ones are papers showing recent and original developments or methods in subjects such as resolution of singularities D module theory singularities of maps and geometry of curves The research papers deal on topics related to or close to those listed above The contributions are organized in three parts according to their contents Part I presents a set of papers on resolution of singularities a topic of renewed activity It deals with important topics of current interest such as canonical algorithmic combinatorial and graphical procedures Villamayor Oka Marijmin as well as special results on desingularization in characteristic p Cossart Moh and connections between resolution and structure of the space of arcs through a singularity Gonz81ez Sprinberg Lejeune Jalabert Part II contains a series of papers on the study of singularities and its connections with differential systems and deformation or perturbation theories Two expository papers Maisonobe Briam on vlebkhout describe in an algebro geometric way the interaction between singularities and D module theory including recent progress on Bernstein polynomials and Newton polygon techniques Geometry of foliations Henaut Garcfa Reguera polar varieties and stratifications Hajto are also topics treated here Two other papers Wall Greuel Pfister deal with quasihomogeneous singularities in the contexts of perturbations

and moduli spaces Globalization of deformations of singularities de Jong and determination of complex topology from the real one 10nd complete this series of papers Part III consists of papers on algebraic geometry of curves and surfaces

Singularity Theory and Its Applications David Mond,James Montaldi,1991-07-15 A workshop on Singularities Bifurcation and Dynamics was held at Warwick in July 1989 as part of a year long symposium on Singularity Theory and its applications The proceedings fall into two halves Volume I mainly on connections with algebraic geometry and volume II on connections with dynamical systems theory bifurcation theory and applications in the sciences The papers are original research stimulated by the symposium and workshops All have been refereed and none will appear elsewhere The main topic deformation theory is represented by several papers on descriptions of the bases of versal deformations and several more on descriptions of the generic fibres Other topics include stratifications and applications to differential geometry **Arc Schemes And Singularities** David Bourqui,Johannes Nicaise,Julien Sebag,2020-03-05 This title introduces the theory of arc schemes in algebraic geometry and singularity theory with special emphasis on recent developments around the Nash problem for surfaces The main challenges are to understand the global and local structure of arc schemes and how they relate to the nature of the singularities on the variety Since the arc scheme is an infinite dimensional object new tools need to be developed to give a precise meaning to the notion of a singular point of the arc scheme Other related topics are also explored including motivic integration and dual intersection complexes of resolutions of singularities Written by leading international experts it offers a broad overview of different applications of arc schemes in algebraic geometry singularity theory and representation theory *Singularities and Their Interaction with Geometry and Low Dimensional Topology* Javier Fernández de Bobadilla,Tamás László,András Stipsicz,2021-05-27 The book is a collection of surveys and original research articles concentrating on new perspectives and research directions at the crossroads of algebraic geometry topology and singularity theory The papers written by leading researchers working on various topics of the above fields are the outcome of the N methi60 Geometry and Topology of Singularities conference held at the Alfr d R nyi Institute of Mathematics in Budapest from May 27 to 31 2019 Both the conference and this resulting volume are in honor of Professor Andr s N methi on the occasion of his 60th birthday whose work plays a decisive and influential role in the interactions between the above fields The book should serve as a valuable resource for graduate students and researchers to deepen the new perspectives methods and connections between geometry and topology regarding singularities Handbook of Geometry and Topology of Singularities I José Luis Cisneros Molina,Dũng Tráng Lê,José Seade,2020-10-24 This volume consists of ten articles which provide an in depth and reader friendly survey of some of the foundational aspects of singularity theory Authored by world experts the various contributions deal with both classical material and modern developments covering a wide range of topics which are linked to each other in fundamental ways Singularities are ubiquitous in mathematics and science in general Singularity theory interacts energetically with the rest of mathematics

acting as a crucible where different types of mathematical problems interact surprising connections are born and simple questions lead to ideas which resonate in other parts of the subject This is the first volume in a series which aims to provide an accessible account of the state of the art of the subject its frontiers and its interactions with other areas of research The book is addressed to graduate students and newcomers to the theory as well as to specialists who can use it as a guidebook

Algebraic Geometry and Singularities Antonio Campillo Lopez,Luis Narvaez Macarro,2012-12-06 The focus of this volume lies on singularity theory in algebraic geometry It includes papers documenting recent and original developments and methods in subjects such as resolution of singularities D module theory singularities of maps and geometry of curves The papers originate from the Third International Conference on Algebraic Geometry held in La Rbida Spain in December 1991 Since then the articles have undergone a meticulous process of refereeing and improvement and they have been organized into a comprehensive account of the state of the art in this field Handbook of Geometry and Topology of Singularities VII

José Luis Cisneros-Molina,Lê Dũng Tráng,José Seade,2025-03-01 This is the seventh volume of the Handbook of Geometry and Topology of Singularities a series that aims to provide an accessible account of the state of the art of the subject its frontiers and its interactions with other areas of research This volume consists of fourteen chapters that provide an in depth and reader friendly introduction to various important aspects of singularity theory The volume begins with an outstanding exposition on Jim Damon s contributions to singularity theory and its applications Jim passed away in 2022 and he was one of the greatest mathematicians of recent times having made remarkable contributions to singularity theory and its applications mostly to medical image computing The next chapter focuses on the singularities of real functions and their bifurcation sets Then we look at the perturbation theory of polynomials and linear operators complex analytic frontal singularities the global singularity theory of differentiable maps and the singularities of holomorphic functions from a global point of view The volume continues with an overview of new tools in singularity theory that spring from symplectic geometry and Floer type homology theories Then it looks at the derivation of Lie algebras of isolated singularities and the three dimensional rational isolated complete intersection singularities as well as recent developments in algebraic K stability and the stable degeneration conjecture This volume also contains an interesting survey on V filtrations a theory began by Malgrange and Kashiwara that can be used to study nearby and vanishing cycle functors and introduced by Deligne Then we present a panoramic view of the Hodge toric and motivic methods in the study of Milnor fibers in singularity theory both from local and global points of view The Monodromy conjecture is also explained this is a longstanding open problem in singularity theory that lies at the crossroads of number theory algebra analysis geometry and topology This volume closes with recent developments in the study of the algebraic complexity of optimization problems in applied algebraic geometry and algebraic statistics The book is addressed to graduate students and newcomers to the theory as well as to specialists who can use it as a guidebook *Trends in Singularities* Anatoly Libgober,Mihai Tibar,2002-03-01 The collection of papers in this volume

represents recent advances in the understanding of the geometry and topology of singularities The book covers a broad range of topics which are in the focus of contemporary singularity theory Its idea emerged during two Singularities workshops held at the University of Lille USTL in 1999 and 2000 Due to the breadth of singularity theory a single volume can hardly give the complete picture of today's progress Nevertheless this collection of papers provides a good snapshot of what is the state of affairs in the field at the turn of the century Several papers deal with global aspects of singularity theory Classification of families of plane curves with prescribed singularities were among the first problems in algebraic geometry Classification of plane cubics was known to Newton and classification of quartics was achieved by Klein at the end of the 19th century The problem of classification of curves of higher degrees was addressed in numerous works after that In the paper by Artal Carmona and Cogolludo the authors describe irreducible sextic curves having a singular point of type A_n and a large Le 18 sum of Milnor numbers of other singularities They have discovered many interesting properties of these families In particular they have found new examples of so called Zariski pairs i e

Topics on Real and Complex Singularities Alexandru Dimca, 2013-07-02 **Singularities, Algebraic Geometry, Commutative Algebra, and Related Topics** Gert-Martin Greuel, Luis Narváez Macarro, Sebastián Xambó-Descamps, 2018-09-18 This volume brings together recent original research and survey articles by leading experts in several fields that include singularity theory algebraic geometry and commutative algebra The motivation for this collection comes from the wide ranging research of the distinguished mathematician Antonio Campillo in these and related fields Besides his influence in the mathematical community stemming from his research Campillo has also endeavored to promote mathematics and mathematicians networking everywhere especially in Spain Latin America and Europe Because of his impressive achievements throughout his career we dedicate this book to Campillo in honor of his 65th birthday Researchers and students from the world wide and in particular Latin American and European communities in singularities algebraic geometry commutative algebra coding theory and other fields covered in the volume will have interest in this book

Complex Analytic Singularities Tatsuo Suwa, Philip Wagreich, 1987 This volume contains recent advances in the field of the theory of Complex Analytic Singularities and Algebraic Geometry presented by Japanese and foreign mathematicians Trends in Singularities Anatoly Libgober, Mihai Tibar, 2012-10-29 The collection of papers in this volume represents recent advances in the understanding of the geometry and topology of singularities The book covers a broad range of topics which are in the focus of contemporary singularity theory Its idea emerged during two Singularities workshops held at the University of Lille USTL in 1999 and 2000 Due to the breadth of singularity theory a single volume can hardly give the complete picture of today's progress Nevertheless this collection of papers provides a good snapshot of what is the state of affairs in the field at the turn of the century Several papers deal with global aspects of singularity theory Classification of families of plane curves with prescribed singularities were among the first problems in algebraic geometry Classification of plane cubics was known to Newton and classification of quartics was

achieved by Klein at the end of the 19th century The problem of classification of curves of higher degrees was addressed in numerous works after that In the paper by Artal Carmona and Cogolludo the authors describe irreducible sextic curves having a singular point of type A_n 15 and a large $\sum$ of Milnor numbers of other singularities They have discovered many interesting properties of these families In particular they have found new examples of so called Zariski pairs

The Theory of Singularities and Its Applications Vladimir Igorevich Arnol'd, 1991-05-31 In this book which is based on lectures given in Pisa under the auspices of the Accademia Nazionale dei Lincei the distinguished mathematician Vladimir Arnold describes those singularities encountered in different branches of mathematics He avoids giving difficult proofs of all the results in order to provide the reader with a concise and accessible overview of the many guises and areas in which singularities appear such as geometry and optics optimal control theory and algebraic geometry reflection groups and dynamical systems and many more This will be an excellent companion for final year undergraduates and graduates whose area of study brings them into contact with singularities

Resolution of Singularities of Embedded Algebraic Surfaces Shreeram Abhyankar, 1998-03-05 The common solutions of a finite number of polynomial equations in a finite number of variables constitute an algebraic variety The degrees of freedom of a moving point on the variety is the dimension of the variety A one dimensional variety is a curve and a two dimensional variety is a surface A three dimensional variety may be called a solid Most points of a variety are simple points Singularities are special points or points of multiplicity greater than one Points of multiplicity two are double points points of multiplicity three are triple points and so on A nodal point of a curve is a double point where the curve crosses itself such as the alpha curve A cusp is a double point where the curve has a beak The vertex of a cone provides an example of a surface singularity A reversible change of variables gives a birational transformation of a variety Singularities of a variety may be resolved by birational transformations

Singularities in Algebraic and Analytic Geometry Caroline Grant Melles, Ruth Ingrid Michler, 2000 This volume contains the proceedings of an AMS special session held at the 1999 Joint Mathematics Meetings in San Antonio The participants were an international group of researchers studying singularities from algebraic and analytic viewpoints The contributed papers contain original results as well as some expository and historical material This volume is dedicated to Oscar Zariski on the one hundredth anniversary of his birth Topics include the role of valuation theory in algebraic geometry with recent applications to the structure of morphisms algorithmic approaches to resolution of equisingular surface singularities and locally toric varieties weak subintegral closures of ideals and Rees valuations constructions of universal weakly subintegral extensions of rings direct sum decompositions of finitely generated modules construction and examples of resolution graphs of surface singularities Jacobians of meromorphic curves investigation of spectral numbers of curve singularities using Puiseux pairs Gröbner basis calculations of Hochschild homology for hypersurfaces with isolated singularities and the theory of characteristic classes of singular spaces a brief history with conjectures and open problems

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Algebraic Geometry Singularities Introduction

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