



# Commutative Algebra, Singularities and Computer Algebra

Edited by

Jürgen Herzog and Victor Vuletescu

NATO Science Series

# Commutative Algebra Singularities And Computer Algebra

**Raffaella Di Napoli**



## **Commutative Algebra Singularities And Computer Algebra:**

Commutative Algebra, Singularities and Computer Algebra Jürgen Herzog,Victor Vuletescu,2003-10-31 Proceedings of the NATO Advanced Research Workshop held in Sinaia Romania 17 22 September 2002     Commutative Algebra, Singularities and Computer Algebra Jürgen Herzog,Victor Vuletescu,2012-12-06 Proceedings of the NATO Advanced Research Workshop held in Sinaia Romania 17 22 September 2002     *Singularities and Computer Algebra* Wolfram Decker, Gerhard Pfister, Mathias Schulze, 2017-03-29 This book arose from a conference on Singularities and Computer Algebra which was held at the Pfalz Akademie Lambrecht in June 2015 in honor of Gert Martin Greuel s 70th birthday This unique volume presents a collection of recent original research by some of the leading figures in singularity theory on a broad range of topics including topological and algebraic aspects classification problems deformation theory and resolution of singularities At the same time the articles highlight a variety of techniques ranging from theoretical methods to practical tools from computer algebra Greuel himself made major contributions to the development of both singularity theory and computer algebra With Gerhard Pfister and Hans Sch nemann he developed the computer algebra system SINGULAR which has since become the computational tool of choice for many singularity theorists The book addresses researchers whose work involves singularity theory and computer algebra from the PhD to expert level     **Computational Commutative and Non-commutative Algebraic Geometry** Svetlana Cojocaru, Gerhard Pfister, Victor Ufnarovski, 2005     *A Singular Introduction to Commutative Algebra* Gert-Martin Greuel, Gerhard Pfister, 2012-12-06 In theory there is no difference between theory and practice In practice there is Yogi Berra A SINGULAR Introduction to Commutative Algebra offers a rigorous intro duction to commutative algebra and at the same time provides algorithms and computational practice In this book we do not separate the theoretical and the computational part Coincidentally as new concepts are introduced it is consequently shown by means of concrete examples and general proce dures how these concepts are handled by a computer We believe that this combination of theory and practice will provide not only a fast way to enter a rather abstract field but also a better understanding of the theory showing concurrently how the theory can be applied We exemplify the computational part by using the computer algebra sys tem SINGULAR a system for polynomial computations which was developed in order to support mathematical research in commutative algebra algebraic geometry and singularity theory As the restriction to a specific system is necessary for such an exposition the book should be useful also for users of other systems such as Macaulay2 and CoCoA with similar goals Indeed once the algorithms and the method of their application in one system is known it is usually not difficult to transfer them to another system     **Computer Algebra in Scientific Computing** V.G. Ganzha, E.W. Mayr, E.V. Vorozhtsov, 2006-09-12 This book constitutes the refereed proceedings of the 9th International Workshop on Computer Algebra in Scientific Computing CASC 2006 The book presents 25 revised full papers together with 2 invited papers covering various expanding applications of computer algebra to scientific computing the

computer algebra systems themselves and the CA algorithms Topics addressed are studies in Gröbner bases polynomial algebra homological algebra quantifier elimination celestial mechanics and more [Singularities and Computer Algebra](#) Christoph Lossen, Gerhard Pfister, 2006 A collection of articles giving overviews and open questions in singularities and their computational aspects

**A First Course in Computational Algebraic Geometry** Wolfram Decker, Gerhard Pfister, 2013-02-07 A quick guide to computing in algebraic geometry with many explicit computational examples introducing the computer algebra system Singular

**Algebraic and Geometric Combinatorics** Christos A. Athanasiadis, 2006 This volume contains original research and survey articles stemming from the Euroconference Algebraic and Geometric Combinatorics The papers discuss a wide range of problems that illustrate interactions of combinatorics with other branches of mathematics such as commutative algebra algebraic geometry convex and discrete geometry enumerative geometry and topology of complexes and partially ordered sets Among the topics covered are combinatorics of polytopes lattice polytopes triangulations and subdivisions Cohen Macaulay cell complexes monomial ideals geometry of toric surfaces groupoids in combinatorics Kazhdan Lusztig combinatorics and graph colorings This book is aimed at researchers and graduate students interested in various aspects of modern combinatorial theories [Computer Algebra in Scientific Computing](#) François Boulier, Matthew England, Timur M. Sadykov, Evgenii V. Vorozhtsov, 2020-10-17 This book constitutes the refereed proceedings of the 22nd International Workshop on Computer Algebra in Scientific Computing CASC 2020 held in Linz Austria in September 2020 The conference was held virtually due to the COVID 19 pandemic The 34 full papers presented together with 2 invited talks were carefully reviewed and selected from 41 submissions They deal with cutting edge research in all major disciplines of computer algebra The papers cover topics such as polynomial algebra symbolic and symbolic numerical computation applications of symbolic computation for investigating and solving ordinary differential equations applications of CAS in the investigation and solution of celestial mechanics problems and in mechanics physics and robotics

*Determinants, Gröbner Bases and Cohomology* Winfried Bruns, Aldo Conca, Claudiu Raicu, Matteo Varbaro, 2022-12-02 This book offers an up to date comprehensive account of determinantal rings and varieties presenting a multitude of methods used in their study with tools from combinatorics algebra representation theory and geometry After a concise introduction to Gröbner and Sagbi bases determinantal ideals are studied via the standard monomial theory and the straightening law This opens the door for representation theoretic methods such as the Robinson Schensted Knuth correspondence which provide a description of the Gröbner bases of determinantal ideals yielding homological and enumerative theorems on determinantal rings Sagbi bases then lead to the introduction of toric methods In positive characteristic the Frobenius functor is used to study properties of singularities such as  $F$  regularity and  $F$  rationality Castelnuovo Mumford regularity an important complexity measure in commutative algebra and algebraic geometry is introduced in the general setting of a Noetherian base ring and then applied to powers and products of ideals The remainder of the book focuses on algebraic geometry where

general vanishing results for the cohomology of line bundles on flag varieties are presented and used to obtain asymptotic values of the regularity of symbolic powers of determinantal ideals In characteristic zero the Borel Weil Bott theorem provides sharper results for GL invariant ideals The book concludes with a computation of cohomology with support in determinantal ideals and a survey of their free resolutions Determinants Gr bner Bases and Cohomology provides a unique reference for the theory of determinantal ideals and varieties as well as an introduction to the beautiful mathematics developed in their study Accessible to graduate students with basic grounding in commutative algebra and algebraic geometry it can be used alongside general texts to illustrate the theory with a particularly interesting and important class of varieties

*Polytopes, Rings, and K-Theory* Winfried Bruns, Joseph Gubeladze, 2009-06-12 This book examines interactions of polyhedral discrete geometry and algebra What makes this book unique is the presentation of several central results in all three areas of the exposition from discrete geometry to commutative algebra and K theory

*Computational Commutative Algebra 1* Martin Kreuzer, Lorenzo Robbiano, 2008-07-05 Hofstadter s Law It always takes longer than you think it will take even if you take into account Hofstadter s Law Douglas R Hofstadter Dear Reader what you are holding in your hands now is for youabook But for us for our families and friends it has been known as the book over the last three years Three years of intense work just to ll three centimeters of your bookshelf This amounts to about one centimeter per year or roughly two fths of an inch per year if you are non metric Clearly we had ample opportunity to experience the full force of Hofstadter s Law Writing a book about Computational Commutative Algebra is not like computing a Gr obner basis you need unshakeable faith to believe that the project will ever end likewise you must trust in the Noetherianity of polynomial rings to believe that Buchberger s Algorithm will ever terminate Naturally we hope that the nal result proves our e orts worthwhile This is a book for learning teaching reading and most of all enjoying the topic at hand

*Mathematical Reviews*, 2007 **Commutative Algebra and Its Connections to Geometry** Alberto Corso, Claudia Polini, 2011-10-20 This volume contains papers based on presentations given at the Pan American Advanced Studies Institute PASI on commutative algebra and its connections to geometry which was held August 3 14 2009 at the Universidade Federal de Pernambuco in Olinda Brazil The main goal of the program was to detail recent developments in commutative algebra and interactions with such areas as algebraic geometry combinatorics and computer algebra The articles in this volume concentrate on topics central to modern commutative algebra the homological conjectures problems in positive and mixed characteristic tight closure and its interaction with birational geometry integral dependence and blowup algebras equisingularity theory Hilbert functions and multiplicities combinatorial commutative algebra Grobner bases and computational algebra

**Description of SINGULAR: A Computer Algebra System for Singularity Theory, Algebraic Geometry and Commutative Algebra** Gert-Martin Greuel, 1999 **Algebra & Number Theory**, 2007 **Introduction to Singularities and Deformations** Gert-Martin Greuel, Christoph Lossen, Eugenii I. Shustin, 2007-02-23 Singularity theory is a young rapidly growing topic with connections

to algebraic geometry complex analysis commutative algebra representations theory Lie groups theory and topology and many applications in the natural and technical sciences This book presents the basic singularity theory of analytic spaces including local deformation theory and the theory of plane curve singularities It includes complete proofs [Index of Conference Proceedings](#) British Library. Document Supply Centre,2003 *Results in Computational Algebra of Bayesian Networks* Steven James Sinnott,2006

## Unveiling the Power of Verbal Artistry: An Mental Sojourn through **Commutative Algebra Singularities And Computer Algebra**

In a global inundated with displays and the cacophony of instant connection, the profound power and mental resonance of verbal beauty usually disappear in to obscurity, eclipsed by the continuous barrage of sound and distractions. Yet, nestled within the lyrical pages of **Commutative Algebra Singularities And Computer Algebra**, a fascinating function of literary beauty that impulses with organic thoughts, lies an remarkable trip waiting to be embarked upon. Published by a virtuoso wordsmith, this magical opus courses viewers on a psychological odyssey, softly revealing the latent possible and profound impact stuck within the complex internet of language. Within the heart-wrenching expanse with this evocative evaluation, we can embark upon an introspective exploration of the book is key themes, dissect its captivating writing model, and immerse ourselves in the indelible impression it leaves upon the depths of readers souls.

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