

# Local Cohomology

An Algebraic Introduction with  
Geometric Applications

**M. P. BRODMANN**  
**R. Y. SHARP**

SECOND EDITION

# Local Cohomology An Algebraic Introduction With Geometric Applications

**Aron Simis, Zaqueu Ramos**



## **Local Cohomology An Algebraic Introduction With Geometric Applications:**

Local Cohomology M. P. Brodmann, R. Y. Sharp, 2013 On its original publication this algebraic introduction to Grothendieck's local cohomology theory was the first book devoted solely to the topic and it has since become the standard reference for graduate students This second edition has been thoroughly revised and updated to incorporate recent developments in the field

**Local Cohomology** Markus P. Brodmann, R. Y. Sharp, 2013 **Local Cohomology** Markus Brodmann, Rodney Y. Sharp, 2013 Local Cohomology, Second Edition M. P. Brodmann, R. Y. Sharp, 2012 Local Cohomology M. P. Brodmann, R. Y. Sharp, 2007-11-26 A graduate text covering Grothendieck's local cohomology theory

Twenty-Four Hours of Local Cohomology Srikanth B. Iyengar, Graham J. Leuschke, Anton Leykin, Claudia Miller, Ezra Miller, Anurag K. Singh, Uli Walther, 2022-07-19 This book is aimed to provide an introduction to local cohomology which takes cognizance of the breadth of its interactions with other areas of mathematics It covers topics such as the number of defining equations of algebraic sets connectedness properties of algebraic sets connections to sheaf cohomology and to de Rham cohomology Gröbner bases in the commutative setting as well as for D modules the Frobenius morphism and characteristic p methods finiteness properties of local cohomology modules semigroup rings and polyhedral geometry and hypergeometric systems arising from semigroups The book begins with basic notions in geometry sheaf theory and homological algebra leading to the definition and basic properties of local cohomology Then it develops the theory in a number of different directions and draws connections with topology geometry combinatorics and algorithmic aspects of the subject

Computations in Algebraic Geometry with Macaulay 2 David Eisenbud, Daniel R. Grayson, Mike Stillman, Bernd Sturmfels, 2013-03-14 Systems of polynomial equations arise throughout mathematics science and engineering Algebraic geometry provides powerful theoretical techniques for studying the qualitative and quantitative features of their solution sets Recently developed algorithms have made theoretical aspects of the subject accessible to a broad range of mathematicians and scientists The algorithmic approach to the subject has two principal aims developing new tools for research within mathematics and providing new tools for modeling and solving problems that arise in the sciences and engineering A healthy synergy emerges as new theorems yield new algorithms and emerging applications lead to new theoretical questions This book presents algorithmic tools for algebraic geometry and experimental applications of them It also introduces a software system in which the tools have been implemented and with which the experiments can be carried out Macaulay 2 is a computer algebra system devoted to supporting research in algebraic geometry commutative algebra and their applications The reader of this book will encounter Macaulay 2 in the context of concrete applications and practical computations in algebraic geometry The expositions of the algorithmic tools presented here are designed to serve as a useful guide for those wishing to bring such tools to bear on their own problems A wide range of mathematical scientists should find these expositions valuable This includes both the users of other programs similar to Macaulay 2 for example Singular and CoCoA

and those who are not interested in explicit machine computations at all

**Commutative Algebra and its Interactions to Algebraic Geometry** Nguyen Tu CUONG, Le Tuan HOA, Ngo Viet TRUNG, 2018-08-02 This book presents four lectures on recent research in commutative algebra and its applications to algebraic geometry Aimed at researchers and graduate students with an advanced background in algebra these lectures were given during the Commutative Algebra program held at the Vietnam Institute of Advanced Study in Mathematics in the winter semester 2013/2014 The first lecture is on Weyl algebras certain rings of differential operators and their D modules relating non commutative and commutative algebra to algebraic geometry and analysis in a very appealing way The second lecture concerns local systems their homological origin and applications to the classification of Artinian Gorenstein rings and the computation of their invariants The third lecture is on the representation type of projective varieties and the classification of arithmetically Cohen Macaulay bundles and Ulrich bundles Related topics such as moduli spaces of sheaves liaison theory minimal resolutions and Hilbert schemes of points are also covered The last lecture addresses a classical problem how many equations are needed to define an algebraic variety set theoretically It systematically covers and improves recent results for the case of toric varieties

*Six Lectures on Commutative Algebra* J. Elias, J. M. Giral, Rosa M. Miró-Roig, Santiago Zarzuela, 2010-03-17 Interest in commutative algebra has surged over the past decades In order to survey and highlight recent developments in this rapidly expanding field the Centre de Recerca Matemàtica in Bellaterra organized a ten days Summer School on Commutative Algebra in 1996 Lectures were presented by six high level specialists L Avramov Purdue M K Green UCLA C Huneke Purdue P Schenzel Halle G Valla Genova and W V Vasconcelos Rutgers providing a fresh and extensive account of the results techniques and problems of some of the most active areas of research The present volume is a synthesis of the lectures given by these authors Research workers as well as graduate students in commutative algebra and nearby areas will find a useful overview of the field and recent developments in it

**Reviews** All six articles are at a very high level they provide a thorough survey of results and methods in their subject areas illustrated with algebraic or geometric examples

**Acta Scientiarum Mathematicarum** Avramov lecture it contains all the major results on infinite free resolutions it explains carefully all the different techniques that apply it provides complete proofs This will be extremely helpful for the novice as well as the experienced

**Mathematical reviews** Huneke lecture The topic is tight closure a theory developed by M Hochster and the author which has in a short time proved to be a useful and powerful tool The paper is extremely well organized written and motivated

**Zentralblatt MATH** Schenzel lecture this paper is an excellent introduction to applications of local cohomology

**Zentralblatt MATH** Valla lecture since he is an acknowledged expert on Hilbert functions and since his interest has been so broad he has done a superb job in giving the readers a lively picture of the theory

**Mathematical reviews** Vasconcelos lecture This is a very useful survey on invariants of modules over noetherian rings relations between them and how to compute them

**Zentralblatt MATH**

**Graded Algebras in Algebraic Geometry** Aron Simis, Zaqueu Ramos, 2022-03-21 The objective of this book is to look at certain commutative

graded algebras that appear frequently in algebraic geometry By studying classical constructions from geometry from the point of view of modern commutative algebra this carefully written book is a valuable source of information offering a careful algebraic systematization and treatment of the problems at hand and contributing to the study of the original geometric questions In greater detail the material covers aspects of rational maps graph degree birationality specialization combinatorics Cremona transformations polar maps Gauss maps the geometry of Fitting ideals tangent varieties joins and secants Aluffi algebras The book includes sections of exercises to help put in practice the theoretic material instead of the mere complementary additions to the theory

**Introduction to Algebraic Geometry** Steven Dale Cutkosky, 2018-06-01 This book presents a readable and accessible introductory course in algebraic geometry with most of the fundamental classical results presented with complete proofs An emphasis is placed on developing connections between geometric and algebraic aspects of the theory Differences between the theory in characteristic 0 and positive characteristic are emphasized The basic tools of classical and modern algebraic geometry are introduced including varieties schemes singularities sheaves sheaf cohomology and intersection theory Basic classical results on curves and surfaces are proved More advanced topics such as ramification theory Zariski's main theorem and Bertini's theorems for general linear systems are presented with proofs in the final chapters With more than 200 exercises the book is an excellent resource for teaching and learning introductory algebraic geometry

**Algorithmic and Experimental Methods in Algebra, Geometry, and Number Theory** Gebhard Böckle, Wolfram Decker, Gunter Malle, 2018-03-22 This book presents state of the art research and survey articles that highlight work done within the Priority Program SPP 1489 Algorithmic and Experimental Methods in Algebra Geometry and Number Theory which was established and generously supported by the German Research Foundation DFG from 2010 to 2016 The goal of the program was to substantially advance algorithmic and experimental methods in the aforementioned disciplines to combine the different methods where necessary and to apply them to central questions in theory and practice Of particular concern was the further development of freely available open source computer algebra systems and their interaction in order to create powerful new computational tools that transcend the boundaries of the individual disciplines involved The book covers a broad range of topics addressing the design and theoretical foundations implementation and the successful application of algebraic algorithms in order to solve mathematical research problems It offers a valuable resource for all researchers from graduate students through established experts who are interested in the computational aspects of algebra geometry and or number theory

**Geometric And Combinatorial Aspects Of Commutative Algebra** Jürgen Herzog, Gaetana Restuccia, 2001-03-06 This work is based on the lectures presented at the International Conference of Commutative Algebra and Algebraic Geometry held in Messina Italy It discusses developments and advances in commutative algebra algebraic geometry and combinatorics highlighting the theory of projective schemes the geometry of curves determinantal and stable ideal

**Commutative Algebra** Alberto Corso, Philippe Gimenez, Maria Vaz Pinto, Santiago

Zarzuela, 2005-08-15 Packed with contributions from international experts *Commutative Algebra Geometric Homological Combinatorial and Computational Aspects* features new research results that borrow methods from neighboring fields such as combinatorics homological algebra polyhedral geometry symbolic computation and topology This book consists of articles pres Monomial Ideals, Computations and Applications Anna M. Bigatti, Philippe Gimenez, Eduardo Sáenz-de-Cabezón, 2013-08-24 This work covers three important aspects of monomial ideals in the three chapters Stanley decompositions by Jürgen Herzog Edge ideals by Adam Van Tuyl and Local cohomology by Josep Ivarer Montaner The chapters written by top experts include computer tutorials that emphasize the computational aspects of the respective areas Monomial ideals and algebras are in a sense among the simplest structures in commutative algebra and the main objects of combinatorial commutative algebra Also they are of major importance for at least three reasons Firstly Gröbner basis theory allows us to treat certain problems on general polynomial ideals by means of monomial ideals Secondly the combinatorial structure of monomial ideals connects them to other combinatorial structures and allows us to solve problems on both sides of this correspondence using the techniques of each of the respective areas And thirdly the combinatorial nature of monomial ideals also makes them particularly well suited to the development of algorithms to work with them and then generate algorithms for more general structures *Algebra and its Applications* Syed Tariq Rizvi, Asma Ali, Vincenzo De Filippis, 2016-11-18 This book discusses recent developments and the latest research in algebra and related topics The book allows aspiring researchers to update their understanding of prime rings generalized derivations generalized semiderivations regular semigroups completely simple semigroups module hulls injective hulls Baer modules extending modules local cohomology modules orthogonal lattices Banach algebras multilinear polynomials fuzzy ideals Laurent power series and Hilbert functions All the contributing authors are leading international academicians and researchers in their respective fields Most of the papers were presented at the international conference on Algebra and its Applications ICAA 2014 held at Aligarh Muslim University India from December 15-17 2014 The book also includes papers from mathematicians who couldn't attend the conference The conference has emerged as a powerful forum offering researchers a venue to meet and discuss advances in algebra and its applications inspiring further research directions Open Problems in Algebraic Combinatorics Christine Berkesch, Benjamin Brubaker, Gregg Musiker, Pavlo Pylyavskyy, Victor Reiner, 2024-08-21 In their preface the editors describe algebraic combinatorics as the area of combinatorics concerned with exact as opposed to approximate results and which puts emphasis on interaction with other areas of mathematics such as algebra topology geometry and physics It is a vibrant area which saw several major developments in recent years The goal of the 2022 conference Open Problems in Algebraic Combinatorics 2022 was to provide a forum for exchanging promising new directions and ideas The current volume includes contributions coming from the talks at the conference as well as a few other contributions written specifically for this volume The articles cover the majority of topics in algebraic combinatorics with the aim of presenting recent important

research results and also important open problems and conjectures encountered in this research The editors hope that this book will facilitate the exchange of ideas in algebraic combinatorics ,2007

**Representation Theory of Geigle-Lenzing Complete Intersections** Martin Herschend, Osamu Iyama, Hiroyuki Minamoto, Steffen

Oppermann, 2023-05-23 View the abstract <https://www.ams.org/bookstore/pspdf/memo-285-1412-abstract.pdf> Mexican

Mathematicians Abroad Noé Bárcenas, Fernando Galaz-García, Mónica Moreno Rocha, 2016-02-01 This volume contains the

proceedings of the First Workshop Matem ticos Mexicanos J venes en el Mundo held from August 22-24 2012 at Centro de Investigaci n en Matem ticas CIMAT in Guanajuato Mexico See more at <http://bookstore.ams.org/conm-657-sthash.cUjwTcvXdpuf>

This volume contains the proceedings of the First Workshop Matem ticos Mexicanos J venes en el Mundo held from August 22-24 2012 at Centro de Investigaci n en Matem ticas CIMAT in Guanajuato Mexico One of the main goals of this

meeting was to present different research directions being pursued by young Mexican mathematicians based in other

countries such as Brazil Canada Colombia Estonia Germany Spain and the United States showcasing research lines currently

underrepresented in Mexico Featured are survey and research articles in six areas algebra analysis applied mathematics

geometry probability and topology Their topics range from current developments related to well known open problems to

novel interactions between pure mathematics and computer science Most of the articles provide a panoramic view of the

fields and problems the authors work on making the book accessible to advanced graduate students and researchers in

mathematics from different fields This book is published in cooperation with Sociedad Matem tica Mexicana

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