

# CONTEMPORARY MATHEMATICS

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## Studies in Duality on Noetherian Formal Schemes and Non-Noetherian Ordinary Schemes

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American Mathematical Society

# Studies In Duality On Noetherian Formal Schemes And Non Noetherian Ordinary Schemes

**Laurentiu Paunescu**



## **Studies In Duality On Noetherian Formal Schemes And Non Noetherian Ordinary Schemes:**

**Studies in Duality on Noetherian Formal Schemes and Non-Noetherian Ordinary Schemes** Leovigildo Alonso Tarrío, Ana Jeremías López, Joseph Lipman, 1999 This volume contains three papers on the foundations of Grothendieck duality on Noetherian formal schemes and on not necessarily Noetherian ordinary schemes The first paper presents a self contained treatment for formal schemes which synthesizes several duality related topics such as local duality formal duality residue theorems dualizing complexes etc Included is an exposition of properties of torsion sheaves and of limits of coherent sheaves A second paper extends Greenlees May duality to complexes on formal schemes This theorem has important applications to Grothendieck duality The third paper outlines methods for eliminating the Noetherian hypotheses A basic role is played by Kiehl s theorem affirming conservation of pseudo coherence of complexes under proper pseudo coherent maps This work gives a detailed introduction to the subject of Grothendieck Duality The approach is unique in its presentation of a complex series of special cases that build up to the main results

***Variance and Duality for Cousin Complexes on Formal Schemes*** Joseph Lipman, Suresh Nayak, Pramathanath Sastry, 2005 Robert Hartshorne s book Residues and Duality 1966 Springer Verlag introduced the notion of residual complexes and developed a duality theory Grothendieck duality on the category of maps of noetherian schemes The three articles in this volume constitute a reworking of the main parts of the corresponding chapters in Hartshorne s 1966 book in greater generality using a somewhat different approach In particular throughout this volume the authors work with arbitrary quasi coherent torsion Cousin complexes on formal schemes not only with residual complexes on ordinary schemes Additionally their motivation is to help readers gain a better understanding of the relation between local properties of residues and global properties of the dualizing pseudofunctor The book is suitable for graduate students and researchers working in algebraic geometry

***Integral Domains Inside Noetherian Power Series Rings: Constructions and Examples*** William Heinzer, Christel Rotthaus, Sylvia Wiegand, 2021-10-08 Power series provide a technique for constructing examples of commutative rings In this book the authors describe this technique and use it to analyse properties of commutative rings and their spectra This book presents results obtained using this approach The authors put these results in perspective often the proofs of properties of classical examples are simplified The book will serve as a helpful resource for researchers working in commutative algebra

***Triangulated Categories*** Thorsten Holm, Peter Jørgensen, Raphaël Rouquier, 2010-06-24 Over the last few decades triangulated categories have become increasingly important to the extent that they can now be viewed as a unifying theory underlying major parts of modern mathematics This 2010 collection of survey articles written by leading experts covers fundamental aspects of triangulated categories as well as applications in algebraic geometry representation theory commutative algebra microlocal analysis and algebraic topology These self contained articles are a useful introduction for graduate students entering the field and a valuable reference for experts

***Commutative Algebra and Noncommutative Algebraic Geometry*** David Eisenbud, Srikanth B.

Iyengar, Anurag K. Singh, J. Toby Stafford, Michel Van den Bergh, 2015-11-19 This book surveys fundamental current topics in these two areas of research emphasising the lively interaction between them Volume 1 contains expository papers ideal for those entering the field

**Grothendieck Duality and Base Change** Brian Conrad, 2003-07-01 Grothendieck's duality theory for coherent cohomology is a fundamental tool in algebraic geometry and number theory in areas ranging from the moduli of curves to the arithmetic theory of modular forms Presented is a systematic overview of the entire theory including many basic definitions and a detailed study of duality on curves dualizing sheaves and Grothendieck's residue symbol Along the way proofs are given of some widely used foundational results which are not proven in existing treatments of the subject such as the general base change compatibility of the trace map for proper Cohen Macaulay morphisms e.g. semistable curves This should be of interest to mathematicians who have some familiarity with Grothendieck's work and wish to understand the details of this theory

K-theory in Algebra, Analysis and Topology Guillermo Cortiñas, Charles A. Weibel, 2020 This volume contains the proceedings of the ICM 2018 satellite school and workshop K theory conference in Argentina The school was held from July 16-20 2018 in La Plata Argentina and the workshop was held from July 23-27 2018 in Buenos Aires Argentina The volume showcases current developments in K theory and related areas including motives homological algebra index theory operator algebras and their applications and connections Papers cover topics such as K theory of group rings Witt groups of real algebraic varieties coarse homology theories topological cyclic homology negative K groups of monoid algebras Milnor K theory and regulators noncommutative motives the classification of C algebras via Kasparov's K theory the comparison between full and reduced C crossed products and a proof of Bott periodicity using almost commuting matrices

*Residues and Duality for Projective Algebraic Varieties* Ernst Kunz, 2008 This book which grew out of lectures by E. Kunz for students with a background in algebra and algebraic geometry develops local and global duality theory in the special case of possibly singular algebraic varieties over algebraically closed base fields It describes duality and residue theorems in terms of Kahler differential forms and their residues The properties of residues are introduced via local cohomology Special emphasis is given to the relation between residues to classical results of algebraic geometry and their generalizations The contribution by A. Dickenstein gives applications of residues and duality to polynomial solutions of constant coefficient partial differential equations and to problems in interpolation and ideal membership D. A. Cox explains toric residues and relates them to the earlier text The book is intended as an introduction to more advanced treatments and further applications of the subject to which numerous bibliographical hints are given

BOOK JACKET

*Real and Complex Singularities* Laurentiu Paunescu, 2007 The modern theory of singularities provides a unifying theme that runs through fields of mathematics as diverse as homological algebra and Hamiltonian systems It is also an important point of reference in the development of a large part of contemporary algebra geometry and analysis Presented by internationally recognized experts the collection of articles in this volume yields a significant cross section of these developments The wide range of surveys includes an

authoritative treatment of the deformation theory of isolated complex singularities by prize winning researcher K Miyajima Graduate students and even ambitious undergraduates in mathematics will find many research ideas in this volume and non experts in mathematics can have an overview of some classic and fundamental results in singularity theory The explanations are detailed enough to capture the interest of the curious reader and complete enough to provide the necessary background material needed to go further into the subject and explore the research literature

General Existence Theorems in Moduli Theory Jack Kingsbury Hall,2011 In this thesis we prove that there is an algebraic stack parameterizing all curves The curves that appear in this algebraic stack are allowed to be arbitrarily singular non reduced disconnected and reducible We also prove the boundedness of the open substack parameterizing reduced and connected curves with fixed arithmetic genus  $g$  and at most  $e$  irreducible components We also show that for essentially any algebraic stack there is an algebraic stack the Hilbert stack parameterizing quasi finite maps to the stack The technical heart of this result is a generalization of formal GAGA to a non separated morphism of algebraic stacks something that was previously unknown for a morphism of schemes We also employ derived algebraic geometry in an essential way to prove the algebraicity of the Hilbert stack The Hilbert stack for algebraic spaces was claimed to exist by M Artin 1974 but was left unproved due to a lack of foundational results for non separated algebraic spaces Finally we generalize the fundamental GAGA results of J P Serre 1956 in three ways to the non separated setting to stacks and to families As an application of these results we show that analytic compactifications of the moduli stack of smooth curves possessing modular interpretations are algebraizable

**Building Bridges Between Algebra and Topology** Wojciech Chachólski,Tobias Dyckerhoff,John Greenlees,Greg Stevenson,2018-03-31 This volume presents an elaborated version of lecture notes for two advanced courses Re Emerging methods in Commutative Algebra and Representation Theory and Building Bridges Between Algebra and Topology held at the CRM in the spring of 2015 Homological algebra is a rich and ubiquitous area it is both an active field of research and a widespread toolbox for many mathematicians Together these notes introduce recent applications and interactions of homological methods in commutative algebra representation theory and topology narrowing the gap between specialists from different areas wishing to acquaint themselves with a rapidly growing field The covered topics range from a fresh introduction to the growing area of support theory for triangulated categories to the striking consequences of the formulation in the homotopy theory of classical concepts in commutative algebra Moreover they also include a higher categories view of Hall algebras and an introduction to the use of idempotent functors in algebra and topology

*Interactions between Homotopy Theory and Algebra* Luchezar L. Avramov,2007 This book is based on talks presented at the Summer School on Interactions between Homotopy theory and Algebra held at the University of Chicago in the summer of 2004 The goal of this book is to create a resource for background and for current directions of research related to deep connections between homotopy theory and algebra including algebraic geometry commutative algebra and representation theory The articles in this book are aimed at the audience of beginning

researchers with varied mathematical backgrounds and have been written with both the quality of exposition and the accessibility to novices in mind

*Structured Matrices in Mathematics, Computer Science, and Engineering II* Vadim Olshevsky, 2001 The collection of the contributions to these volumes offers a flavor of the plethora of different approaches to attack structured matrix problems The reader will find that the theory of structured matrices is positioned to bridge diverse applications in the sciences and engineering deep mathematical theories as well as computational and numerical issues The presentation fully illustrates the fact that the techniques of engineers mathematicians and numerical analysts nicely complement each other and they all contribute to one unified theory of structured matrices Back cover

*Nonlinear PDE's, Dynamics and Continuum Physics* J. L. Bona, Katarzyna Saxton, Ralph Saxton, 2000 This volume contains the refereed proceedings of the conference on Nonlinear Partial Differential Equations Dynamics and Continuum Physics which was held at Mount Holyoke College in Massachusetts from July 19th to July 23rd 1998 Models examined derive from a wide range of applications including elasticity thermoviscoelasticity granular media fluid dynamics gas dynamics and conservation laws Mathematical topics include existence theory and stability instability of traveling waves asymptotic behavior of solutions to nonlinear wave equations effects of dissipation mechanisms of blow up well posedness and regularity and fractal solutions The text will be of interest to graduate students and researchers working in nonlinear partial differential equations and applied mathematics

**Applications of Curves over Finite Fields** Michael D. Fried, 1999 This volume presents the results of the AMS IMS SIAM Joint Summer Research Conference held at the University of Washington Seattle The talks were devoted to various aspects of the theory of algebraic curves over finite fields and its numerous applications The three basic themes are the following

- 1 Curves with many rational points Several articles describe main approaches to the construction of such curves the Drinfeld modules and fiber product methods the moduli space approach and the constructions using classical curves
- 2 Monodromy groups of characteristic  $p$  covers A number of authors presented the results and conjectures related to the study of the monodromy groups of curves over finite fields In particular they study the monodromy groups from genus 0 covers reductions of covers and explicit computation of monodromy groups over finite fields
- 3 Zeta functions and trace formulas To a large extent papers devoted to this topic reflect the contributions of Professor Bernard Dwork and his students This conference was the last attended by Professor Dwork before his death and several papers inspired by his presence include commentaries about the applications of trace formulas and L function The volume also contains a detailed introduction paper by Professor Michael Fried which helps the reader to navigate the material presented in the book

*Computability Theory and Its Applications* Peter Cholak, 2000 This collection of articles presents a snapshot of the status of computability theory at the end of the millennium and a list of fruitful directions for future research The papers represent the works of experts in the field who were invited speakers at the AMS IMS SIAM 1999 Summer Conference on Computability Theory and Applications which focused on open problems in computability theory and on some

related areas in which the ideas methods and or results of computability theory play a role Some presentations are narrowly focused others cover a wider area Topics included from pure computability theory are the computably enumerable degrees M Lerman the computably enumerable sets P Cholak R Soare definability issues in the  $c$  and Turing degrees A Nies R Shore and other degree structures M Arslanov S Badaev and S Goncharov P Odifreddi A Sorbi The topics involving relations between computability and other areas of logic and mathematics are reverse mathematics and proof theory D Cenzer and C Jockusch C Chong and Y Yang H Friedman and S Simpson set theory R Dougherty and A Kechris M Groszek T Slaman and computable mathematics and model theory K Ambos Spies and A Kucera R Downey and J Remmel S Goncharov and B Khoussainov J Knight M Peretyatkin A Shlapentokh

*Groups, Languages and Geometry* Robert H. Gilman, 1999 This volume contains the proceedings of the AMS IMS SIAM Joint Summer Research Conference on Geometric Group Theory and Computer Science held at Mount Holyoke College South Hadley MA The conference was devoted to computational aspects of geometric group theory a relatively young area of research which has grown out of an influx of ideas from topology and computer science into combinatorial group theory The book reflects recent progress in this interesting new field Included are articles about insights from computer experiments applications of formal language theory decision problems and complexity problems There is also a survey of open questions in combinatorial group theory The volume will interest group theorists topologists and experts in automata and language theory

**$q$ -Series from a Contemporary Perspective** Mourad Ismail, Dennis W. Stanton, 2000 This volume presents the proceedings of the Summer Research Conference on  $q$  series and related topics held at Mount Holyoke College Hadley Massachusetts All of the papers were contributed by participants and offer original research Articles in the book reflect the diversity of areas that overlap with  $q$  series as well as the usefulness of  $q$  series across the mathematical sciences The conference was held in honour of Richard Askey on the occasion of his 65th birthday

**Homotopy Methods in Algebraic Topology** Nicholas Kuhn, 2001-04-25 This volume presents the proceedings from the AMS IMS SIAM Summer Research Conference on Homotopy Methods in Algebraic Topology held at the University of Colorado Boulder The conference coincided with the sixtieth birthday of J Peter May An article is included reflecting his wide ranging and influential contributions to the subject area Other articles in the book discuss the ordinary elliptic and real oriented Adams spectral sequences mapping class groups configuration spaces extended powers operads the telescope conjecture  $p$  compact groups algebraic K theory stable and unstable splittings the calculus of functors the  $E_\infty$  tensor product and equivariant cohomology theories The book offers a compendious source on modern aspects of homotopy theoretic methods in many algebraic settings

Radon Transforms and Tomography Eric Todd Quinto, 2001 One of the most exciting features of the fields of Radon transforms and tomography is the strong relationship between high level pure mathematics and applications to areas such as medical imaging and industrial nondestructive evaluation The proceedings featured in this volume bring together fundamental research articles in the major areas of Radon transforms and tomography

This volume includes expository papers that are of special interest to beginners as well as advanced researchers. Topics include local tomography and wavelets, Lambda tomography and related methods, tomographic methods in RADAR, ultrasound, Radon transforms and differential equations and the Pompeiu problem. The major themes in Radon transforms and tomography are represented among the research articles. Pure mathematical themes include vector tomography, microlocal analysis, twistor theory, Lie theory, wavelets, harmonic analysis and distribution theory. The applied articles employ high quality pure mathematics to solve important practical problems. Effective scanning geometries are developed and tested for a NASA wind tunnel. Algorithms for limited electromagnetic tomographic data and for impedance imaging are developed and tested. Range theorems are proposed to diagnose problems with tomography scanners. Principles are given for the design of X ray tomography reconstruction algorithms and numerical examples are provided. This volume offers readers a comprehensive source of fundamental research useful to both beginners and advanced researchers in the fields.



## **Studies In Duality On Noetherian Formal Schemes And Non Noetherian Ordinary Schemes** Book Review: Unveiling the Power of Words

In a global driven by information and connectivity, the power of words has become more evident than ever. They have the capacity to inspire, provoke, and ignite change. Such could be the essence of the book **Studies In Duality On Noetherian Formal Schemes And Non Noetherian Ordinary Schemes**, a literary masterpiece that delves deep into the significance of words and their affect our lives. Compiled by a renowned author, this captivating work takes readers on a transformative journey, unraveling the secrets and potential behind every word. In this review, we shall explore the book is key themes, examine its writing style, and analyze its overall effect on readers.

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