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Jörg Schürmann

Topology of Singular Spaces and Constructible Sheaves

Birkhäuser

Topology Of Singular Spaces And Constructible Sheaves

Monografie Matematyczne

Jörg Schürmann



Topology Of Singular Spaces And Constructible Sheaves Monografie Matematyczne:

Topology of Singular Spaces and Constructible Sheaves Jörg Schürmann, 2012-12-06 Assuming that the reader is familiar with sheaf theory the book gives a self contained introduction to the theory of constructible sheaves related to many kinds of singular spaces such as cell complexes triangulated spaces semialgebraic and subanalytic sets complex algebraic or analytic sets stratified spaces and quotient spaces The relation to the underlying geometrical ideas are worked out in detail together with many applications to the topology of such spaces All chapters have their own detailed introduction containing the main results and definitions illustrated in simple terms by a number of examples The technical details of the proof are postponed to later sections since these are not needed for the applications

Topology of Stratified Spaces Greg Friedman, 2011-03-28 This book explores the study of singular spaces using techniques from areas within geometry and topology and the interactions among them

D-Modules, Perverse Sheaves, and Representation Theory Kiyoshi Takeuchi, Ryoshi Hotta, Toshiyuki Tanisaki, 2007-10-12 D modules continues to be an active area of stimulating research in such mathematical areas as algebraic analysis differential equations and representation theory Key to D modules Perverse Sheaves and Representation Theory is the authors essential algebraic analytic approach to the theory which connects D modules to representation theory and other areas of mathematics To further aid the reader and to make the work as self contained as possible appendices are provided as background for the theory of derived categories and algebraic varieties The book is intended to serve graduate students in a classroom setting and as self study for researchers in algebraic geometry representation theory

Facets of Algebraic Geometry: Volume 1 Paolo Aluffi, David Anderson, Milena Hering, Mircea Mustață, Sam Payne, 2022-04-07 Written to honor the 80th birthday of William Fulton the articles collected in this volume the first of a pair present substantial contributions to algebraic geometry and related fields with an emphasis on combinatorial algebraic geometry and intersection theory Featured topics include commutative algebra moduli spaces quantum cohomology representation theory Schubert calculus and toric and tropical geometry The range of these contributions is a testament to the breadth and depth of Fulton s mathematical influence The authors are all internationally recognized experts and include well established researchers as well as rising stars of a new generation of mathematicians The text aims to stimulate progress and provide inspiration to graduate students and researchers in the field

Projective Geometry and Formal Geometry Lucian Badescu, 2012-12-06 The aim of this monograph is to introduce the reader to modern methods of projective geometry involving certain techniques of formal geometry Some of these methods are illustrated in the first part through the proofs of a number of results of a rather classical flavor involving in a crucial way the first infinitesimal neighbourhood of a given subvariety in an ambient variety Motivated by the first part in the second formal functions on the formal completion X_Y of X along a closed subvariety Y are studied particularly the extension problem of formal functions to rational functions The formal scheme X_Y introduced to algebraic geometry by Zariski and Grothendieck in the 1950s is an

analogue of the concept of a tubular neighbourhood of a submanifold of a complex manifold It is very well suited to study the given embedding Y subset X The deep relationship of formal geometry with the most important connectivity theorems in algebraic geometry or with complex geometry is also studied Some of the formal methods are illustrated and applied to homogeneous spaces The book contains a lot of results obtained over the last thirty years many of which never appeared in a monograph or textbook It addresses to algebraic geometers as well as to those interested in using methods of algebraic geometry

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

Singularity Theory: Dedicated To Jean-paul Brasselet On His 60th Birthday - Proceedings Of The 2005 Marseille Singularity School And Conference Jean-paul Brasselet, Denis Cheniot, Nicolas Dutertre, Claudio Murolo, Anne Pichon, David Trotman, 2007-02-08 The Singularity School and Conference took place in Luminy Marseille from January 24th to February 25th 2005 More than 180 mathematicians from over 30 countries converged to discuss recent developments in singularity theory The volume contains the elementary and advanced courses conducted by singularities specialists during the conference general lectures on

singularity theory and lectures on applications of the theory to various domains The subjects range from geometry and topology of singularities through real and complex singularities to applications of singularities Singularity Theory Denis Cheniot, Jean-Paul Brasselet, 2007 The Singularity School and Conference took place in Luminy Marseille from January 24th to February 25th 2005 More than 180 mathematicians from over 30 countries converged to discuss recent developments in singularity theory The volume contains the elementary and advanced courses conducted by singularities specialists during the conference general lectures on singularity theory and lectures on applications of the theory to various domains The subjects range from geometry and topology of singularities through real and complex singularities to applications of singularities Intersection Spaces, Spatial Homology Truncation, and String Theory Markus Banagl, 2010-07-08 The present monograph introduces a method that assigns to certain classes of stratified spaces cell complexes called intersection spaces whose ordinary rational homology satisfies generalized Poincaré duality

Perverse Sheaves and Applications to Representation Theory Pramod N. Achar, 2021-09-27 Since its inception around 1980 the theory of perverse sheaves has been a vital tool of fundamental importance in geometric representation theory This book which aims to make this theory accessible to students and researchers is divided into two parts The first six chapters give a comprehensive account of constructible and perverse sheaves on complex algebraic varieties including such topics as Artin's vanishing theorem smooth descent and the nearby cycles functor This part of the book also has a chapter on the equivariant derived category and brief surveys of side topics including tame and adic sheaves D modules and algebraic stacks The last four chapters of the book show how to put this machinery to work in the context of selected topics in geometric representation theory Kazhdan-Lusztig theory Springer theory the geometric Satake equivalence and canonical bases for quantum groups Recent developments such as the p -canonical basis are also discussed The book has more than 250 exercises many of which focus on explicit calculations with concrete examples It also features a 4 page Quick Reference that summarizes the most commonly used facts for computations similar to a table of integrals in a calculus textbook

Combinatorial And Toric Homotopy: Introductory Lectures Alastair Darby, Jelena Grbic, Zhi Lu, Jie Wu, 2017-10-20 This volume consists of introductory lectures on the topics in the new and rapidly developing area of toric homotopy theory and its applications to the current research in configuration spaces and braids as well as to more applicable mathematics such as error codes and robot motion planning The book starts intertwining homotopy theoretical and combinatorial ideas within the realm of toric topology and illustrates an attempt to classify in a combinatorial way polytopes known as fullerenes which are important objects in quantum physics quantum chemistry and nanotechnology Toric homotopy theory is then introduced as a further development of toric topology which describes properties of Davis-Januszkiewicz spaces moment angle complexes and their generalizations to polyhedral products The book also displays the current research on configuration spaces braids the theory of limits over the category of presentations and the theory of error codes As an application to robotics the book surveys topological problems relevant to the

motion planning problem of robotics and includes new results and constructions which enrich the emerging area of topological robotics The book is at research entry level addressing the core components in homotopy theory and their important applications in the sciences and thus suitable for advanced undergraduate and graduate students [A Panorama of Singularities](#) Francisco-Jesús Castro-Jiménez, David Bradley Massey, Bernard Teissier, Meral Tosun, 2020-01-13 This volume contains the proceedings of the conference A Panorama on Singular Varieties celebrating the 70th birthday of L D ng Tr ng held from February 7 10 2017 at the University of Seville IMUS Seville Spain The articles cover a wide range of topics in the study of singularities and should be of great value to graduate students and research faculty who have a basic background in the theory of singularities **Real and Complex Singularities** Jean-Paul Brasselet, Maria Aparecida Soares

Ruas, 2007-01-05 This volume collects papers presented at the eighth S o Carlos Workshop on Real and Complex Singularities held at the IML Marseille July 2004 Like the workshop this collection establishes the state of the art and presents new trends new ideas and new results in all of the branches of singularities Real and Complex Singularities offers a useful summary of leading ideas in singularity theory and inspiration for future research [Arthur Packets for \$p\$ -adic Groups by Way of Microlocal Vanishing Cycles of Perverse Sheaves, with Examples](#) Clifton Cunningham, Andrew Fiori, Ahmed Moussaoui, James Mracek, Bin Xu, 2022-04-08 View the abstract **Dynamics of Foliations, Groups and Pseudogroups** Pawel

Walczak, 2012-12-06 Foliations groups and pseudogroups are objects which are closely related via the notion of holonomy In the 1980s they became considered as general dynamical systems This book deals with their dynamics Since dynamics is a very extensive term we focus on some of its aspects only Roughly speaking we concentrate on notions and results related to different ways of measuring complexity of the systems under consideration More precisely we deal with different types of growth entropies and dimensions of limiting objects Invented in the 1980s by E Ghys R Langevin and the author geometric entropy of a foliation is the principal object of interest among all of them Throughout the book the reader will find a good number of inspiring problems related to the topics covered *The Novikov Conjecture* Matthias Kreck, Wolfgang Lück, 2004-11-22 These lecture notes contain a guided tour to the Novikov Conjecture and related conjectures due to Baum Connes Borel and Farrell Jones They begin with basics about higher signatures Whitehead torsion and the s Cobordism Theorem Then an introduction to surgery theory and a version of the assembly map is presented Using the solution of the Novikov conjecture for special groups some applications to the classification of low dimensional manifolds are given

Periods and Nori Motives Annette Huber, Stefan Müller-Stach, 2017-03-08 This book casts the theory of periods of algebraic varieties in the natural setting of Madhav Nori's abelian category of mixed motives It develops Nori's approach to mixed motives from scratch thereby filling an important gap in the literature and then explains the connection of mixed motives to periods including a detailed account of the theory of period numbers in the sense of Kontsevich Zagier and their structural properties Period numbers are central to number theory and algebraic geometry and also play an important role in

other fields such as mathematical physics There are long standing conjectures about their transcendence properties best understood in the language of cohomology of algebraic varieties or more generally motives Readers of this book will discover that Nori's unconditional construction of an abelian category of motives over fields embeddable into the complex numbers is particularly well suited for this purpose Notably Kontsevich's formal period algebra represents a torsor under the motivic Galois group in Nori's sense and the period conjecture of Kontsevich and Zagier can be recast in this setting Periods and Nori Motives is highly informative and will appeal to graduate students interested in algebraic geometry and number theory as well as researchers working in related fields Containing relevant background material on topics such as singular cohomology algebraic de Rham cohomology diagram categories and rigid tensor categories as well as many interesting examples the overall presentation of this book is self contained

Interactions of Classical and Numerical Algebraic Geometry Daniel James Bates, 2009-09-16 This volume contains the proceedings of the conference on Interactions of Classical and Numerical Algebraic Geometry held May 22-24 2008 at the University of Notre Dame in honor of the achievements of Professor Andrew J Sommese While classical algebraic geometry has been studied for hundreds of years numerical algebraic geometry has only recently been developed Due in large part to the work of Andrew Sommese and his collaborators the intersection of these two fields is now ripe for rapid advancement The primary goal of both the conference and this volume is to foster the interaction between researchers interested in classical algebraic geometry and those interested in numerical methods The topics in this book include but are not limited to various new results in complex algebraic geometry a primer on Seshadri constants analyses and presentations of existing and novel numerical homotopy methods for solving polynomial systems a numerical method for computing the dimensions of the cohomology of twists of ideal sheaves and the application of algebraic methods in kinematics and phylogenetics

Compositio Mathematica ,2008 American Book Publishing Record ,2004

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