Extending Intersection Homology Type Invariants to Non-Witt Spaces

Markus Banagl

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Su Gao,A. S. Kechris

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Extending Intersection Homology Type Invariants to Non-Witt Spaces Markus Banagl,2002 Intersection homology theory provides a way to obtain generalized Poincare duality as well as a signature and characteristic classes for singular spaces For this to work one has had to assume however that the space satisfies the so called Witt condition We extend this approach to constructing invariants to spaces more general than Witt spaces   Singular Intersection Homology Greg Friedman,2020-09-24 The first expository book length introduction to intersection homology from the viewpoint of singular and piecewise linear chains   *Intersection Homology & Perverse Sheaves* Laurenţiu G. Maxim,2019-11-30 This textbook provides a gentle introduction to intersection homology and perverse sheaves where concrete examples and geometric applications motivate concepts throughout By giving a taste of the main ideas in the field the author welcomes new readers to this exciting area at the crossroads of topology algebraic geometry analysis and differential equations Those looking to delve further into the abstract theory will find ample references to facilitate navigation of both classic and recent literature Beginning with an introduction to intersection homology from a geometric and topological viewpoint the text goes on to develop the sheaf theoretical perspective Then algebraic geometry comes to the fore a brief discussion of constructibility opens onto an in depth exploration of perverse sheaves Highlights from the following chapters include a detailed account of the proof of the Beilinson Bernstein Deligne Gabber BBDG decomposition theorem applications of perverse sheaves to hypersurface singularities and a discussion of Hodge theoretic aspects of intersection homology via Saito s deep theory of mixed Hodge modules An epilogue offers a succinct summary of the literature surrounding some recent applications Intersection Homology Perverse Sheaves is suitable for graduate students with a basic background in topology and algebraic geometry By building context and familiarity with examples the text offers an ideal starting point for those entering the field This classroom tested approach opens the door to further study and to current research   *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   *The AB Program in Geometric Analysis: Sharp Sobolev Inequalities and Related Problems* Olivier Druet,Emmanuel Hebey,2002 Function theory and Sobolev inequalities have been the target of investigation for many years Sharp constants in these inequalities constitute a critical tool in geometric analysis The AB programme is concerned with sharp Sobolev inequalities on compact Riemannian manifolds This text summarizes the results of contemporary research and gives an up to date report on the field   **Segre's Reflexivity and an Inductive Characterization of Hyperquadrics** Yasuyuki Kachi,Eiichi Sato,2002 Introduction The universal pseudo quotient for a family of subvarieties Normal bundles of quadrics in X Morphisms from quadrics to Grassmannians Pointwise uniform vector bundles on non singular quadrics Theory of extensions of families over Hilbert schemes Existence of algebraic quotient proof of Theorem 0 3 Appendix Deformations of vector bundles on infinitesimally rigid projective varieties with null global i forms

References **Abstract Band Method via Factorization, Positive and Band Extensions of Multivariable Almost Periodic Matrix Functions, and Spectral Estimation** L. Rodman,Ilya M. Spitkovskiĭ,Hugo Jan Woerdeman,2002 In this work versions of an abstract scheme are developed which are designed to provide a framework for solving a variety of extension problems The abstract scheme is commonly known as the band method The main feature of the new versions is that they express directly the conditions for existence of positive band extensions in terms of abstract factorizations with certain additional properties The results prove amongst other things that the band extension is continuous in an appropriate sense *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 Invariants of Boundary Link Cobordism Desmond Sheiham,2003 An n dimensional mu component boundary link is a codimension 2 embedding of spheres L sqcup_ mu S DEGREESn subset S DEGREES n 2 such that there exist mu disjoint oriented embedded n 1 manifolds which span the components of L This title proceeds to compute the isomorphism class of C_ *On the Splitting of Invariant Manifolds in Multidimensional Near-Integrable Hamiltonian Systems* Pierre Lochak,J.-P. Marco,D. Sauzin,2003 Presents the problem of the splitting of invariant manifolds in multidimensional Hamiltonian systems stressing the canonical features of the problem This book offers introduction of a canonically invariant scheme for the computation of the splitting matrix Connectivity Properties of Group Actions on Non-Positively Curved Spaces Robert Bieri,Ross Geoghegan,2003 Generalizing the Bieri Neumann Strebel Renz Invariants this Memoir presents the foundations of a theory of not necessarily discrete actions rho of a suitable group G by isometries on a proper CAT 0 space M The passage from groups G to group actions rho implies the introduction of Sigma invariants Sigmak rho to replace the previous Sigmak G introduced by those authors Their theory is now seen as a special case of what is studied here so that readers seeking a detailed treatment of their theory will find it included here as a special case We define and study controlled k connectedness CCk of rho both over M and over end points e in the boundary at infinity partial M Sigmak rho is by definition the set of all e over which the action is k 1 connected A central theorem the Boundary Criterion says that Sigmak rho partial M if and only if rho is CC k 1 over M An Openness Theorem says that CCk over M is an open condition on the space of isometric actions rho of G on M Another Openness Theorem says that Sigmak rho is an open subset of partial M with respect to the Tits metric topology When rho G is a discrete group of isometries the property CC k 1 is equivalent to ker rho having the topological

finiteness property type F_k More generally if the orbits of the action are discrete CC k 1 is equivalent to the point stabilizers having type F_k In particular for k 2 we are characterizing finite presentability of kernels and stabilizers Examples discussed include locally rigid actions translation actions on vector spaces especially those by metabelian groups **Banach Embedding Properties of Non-Commutative L^p-Spaces** U. Haagerup,Haskell P. Rosenthal,F. A. Sukochev,2003 Let mathcal N and mathcal M be von Neumann algebras It is proved that L DEGREESp mathcal N does not linearly topologically embed in L DEGREESp mathcal M for mathcal N infinite mathcal M finit *Exponentially Small Splitting of Invariant Manifolds of Parabolic Points* , On the Classification of Polish Metric Spaces Up to Isometry Su Gao,A. S. Kechris,2003 *Gromov-Hausdorff Distance for Quantum Metric Spaces/Matrix Algebras Converge to the Sphere for Quantum Gromov-Hausdorff Distance* Marc Aristide Rieffel,2004 By a quantum metric space we mean a C DEGREES algebra or more generally an order unit space equipped with a generalization of the usual Lipschitz seminorm on functions which one associates to an ordinary metric We develop for compact quantum metric spaces a version of Gromov Hausdorff di

Anisotropic Hardy Spaces and Wavelets Marcin Bownik,2003 Investigates the anisotropic Hardy spaces associated with very general discrete groups of dilations This book includes the classical isotropic Hardy space theory of Fefferman and Stein and parabolic Hardy space theory of Calderon and Torchinsky **Infinite Dimensional Complex Symplectic Spaces** William Norrie Everitt,Lawrence Markus,2004 Complex symplectic spaces are non trivial generalizations of the real symplectic spaces of classical analytical dynamics This title presents a self contained investigation of general complex symplectic spaces and their Lagrangian subspaces regardless of the finite or infinite dimensionality *Pseudodifferential Analysis on Conformally Compact Spaces* Robert Lauter,2003 The 0 calculus on a manifold with boundary is a micro localization of the Lie algebra of vector fields that vanish at the boundary It has been used by Mazzeo Melrose to study the Laplacian of a conformally compact metric **Methods in the Theory of Hereditarily Indecomposable Banach Spaces** Spiros Argyros,Andreas Tolias,2004 A general method producing Hereditarily Indecomposable H I Banach spaces is provided We apply this method to construct a nonseparable H I Banach space Y This space is the dual as well as the second dual of a separable H I Banach space **The $RO(G)$-Graded Equivariant Ordinary Homology of G-Cell Complexes with Even-Dimensional Cells for $G=\mathbb {Z}/p$** ,

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