

# Intersection Cohomology

by Armand Borel; Universitat Bern

(if anything) happened to Intersection Homology? - MathOverflow Intersection homology - Wikipedia, the free encyclopedia ?Intermediate extensions and intersection cohomology. A self-dual local system  $L$  on a stratum  $S : S$  ??  $X$  has two (dual) extensions, connected by a natural An Introduction to Intersection Homology Theory, Second Edition - Google Books Result de Rham intersection cohomology for general perversities Intersection Homology II. Mark Goresky 1. and Robert MacPherson 2.\*. 1 Department of Mathematics, Northeastern University, Boston, MA 02115, USA. Intersection cohomology invariants of complex algebraic varieties Since the quotient  $X/G$  will in general then be singular they all consider its intersection cohomology groups rather than its ordinary cohomology. Principally Hecke algebras, Intersection cohomology of Schubert varieties and . Intersection Cohomology Methods in Representation Theory\*. George Lusztig. Department of Mathematics, Room 2-276. Massachusetts Institute of Technology, Notes of a seminar on intersection homology, which met weekly during the . fixed point theorem in intersection cohomology (M. Goresky and R. MacPherson)

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intersection cohomology in nLab Intersection Cohomology (Modern Birkhäuser Classics) (English and French Edition) [Armand Borel] on Amazon.com. \*FREE\* shipping on qualifying offers. Intersection homology II - Springer For a stratified pseudomanifold, we have the de Rham Theorem for a perversity verifying, where denotes the top perversity. We extend this result to any [1205.7057] Intersection Cohomology. Simplicial Blow-up and Nov 26, 2009 . In the early 1990s, Gil Kalai introduced me to a very interesting generalization of homology theory called intersection homology, which existed INTERSECTION HOMOLOGY THEORY - IAS Intersection homology Wang sequence. FILIPP LEVIKOV. ABSTRACT. We prove the existence of a Wang-like sequence for intersection homology. A result is ?The decomposition theorem and the intersection cohomology of . Jun 4, 2011 . This idea can be concretized in a definition of intersection cohomology which has an additional parameter called perversity. In two special INTERSECTION HOMOLOGY THEORY The main result of the paper is that the equivariant intersection cohomology . As an application, a surprising relation between the intersection cohomology. Intersection cohomology and perverse sheaves The theorem says in effect that intersection cohomology satisfies the Weil . ordinary cohomology the first correct proof of Lefschetz's theorem was due Hodge; Homology Intersection -- from Wolfram MathWorld We study the behavior of intersection cohomology invariants under morphisms . an intersection cohomology complex under a proper algebraic morphism [BBD].  $T = (c^*$ . - American Mathematical Society Intersection homology Wang sequence - The Library at MSRI theory of intersections of homology cycles on manifolds, as announced in [6]. For a compact oriented manifold, all the intersection homology groups coincide. Purity for intersection cohomology after Deligne-Gabber In topology, a branch of mathematics, intersection homology is an analogue of singular homology especially well-suited for the study of singular spaces, . Intersection homology II - MIT Mathematics Intersection homology is not functorial under continuous maps. 15. 2.13. First axiomatic characterization of the intersection cohomology sheaf. 34. 6.3. Intersection Cohomology Methods in Representation . - CiteSeer cohomology, and the existence of Kazhdan–Lusztig polynomials. We also sections to intersection cohomology of an orbit closure  $\bar{v}$ , for certain non-constant. VANISHING OF ODD DIMENSIONAL INTERSECTION . T.A. Springer, Intersection Cohomology of  $B \times B$  orbits in group INTERSECTION HOMOLOGY AND TORUS ACTIONS. FRANCES KIRWAN. It is well known that the homology of a nonsingular complex projective  $v$ -. INTERSECTION COHOMOLOGY, MONODROMY, AND THE . When two cycles have a transversal intersection  $X_1 \cap X_2 = Y$  . The binary operation of intersection makes homology on a manifold into a ring. Intersection homology theory - ScienceDirect.com Goresky, M., MacPherson, R.: Intersection homology theory. Topology 19, 135–162 (1980). 21. Goresky, M., MacPherson, R.: Stratified Morse theory. INTERSECTION HOMOLOGY AND PERVERSE SHEAVES . Dec 15, 1990 . Introduction. This report is about intersection homology and perverse sheaves. Intersec- tion homology is the subject of Chapter 1, which may 3 Intersection Cohomology and Schubert Varieties. 22. 4. Representation of Hecke Algebras. 34. 5 Representation Theory and Intersection Cohomology. 56. Hilbert Modular Forms with Coefficients in Intersection Homology . - Google Books Result We say that a complex analytic space,  $X$ , is an intersection cohomology manifold if . Key words and phrases. intersection cohomology, monodromy, Milnor fiber, Intersection - School of Mathematics, University of Edinburgh May 31, 2012 . We define perverse local systems over filtered face sets and intersection cohomology with coefficients in a perverse local system. In particular Intersection Cohomology (Modern Birkhäuser Classics) - Amazon.com theory of intersections of homology cycles on manifolds, as announced in [6]. For a compact oriented manifold, all the intersection homology groups coincide. Intersection Homology and Perverse Sheaves Equivariant Intersection Cohomology of Semi-Stable Points - JStor 135\_162 0040-9383/80/0601-0135302.00/0 Pergamon Press Ltd., 1980. Printed in Great Britain INTERSECTION HOMOLOGY THEORY MARK GORESKY and Intersection Cohomology - Google Books Result the vanishing of the odd dimensional intersection cohomology sheaves and of the . vanishing phenomenon using equivariant intersection cohomology (see