

intersection spaces spatial homology pdf

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Intersection Spaces, Spatial Homology Truncation, and

Intersection homology and the homology of intersection spaces reveal themselves as the two sides of one coin. Prerequisites. In Chapter 1, we assume that the reader is acquainted with the elementary homotopy theory of CW complexes [Whi78, Hil53, Hat02].

Intersection Spaces, Spatial Homology Truncation, and

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. The cornerstone of the method is a process of spatial homology truncation, whose functoriality properties are analyzed in detail.

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Intersection Spaces, Spatial Homology Truncation, and

The theory of intersection spaces assigns cell complexes to certain topological pseudomanifolds depending on a perversity function in the sense of intersection homology.

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INTERSECTION SPACES, PERVERSE SHEAVES AND STRING THEORY 3 homology $H^i(X; \mathbb{Q})$ of a variety X in terms of the topology of a smoothing deformation, by mirroring" known results (e.g., [BBD, dCM, GM82]) relating the intersection homology groups $IH^i(X; \mathbb{Q})$ of X to the topology of a resolution of singularities.

INTERSECTION SPACES, PERVERSE SHEAVES AND STRING THEORY

Our construction of intersection spaces is of a homotopy- theoretic nature, resting on technology for spatial homology truncation, which we develop in this book.

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Roughly speaking, the intersection space $I^x X$ associated to a singular space X is defined by replacing links of singularities by their corresponding Moore approximations, a process the first author termed "spatial homology truncation". Let us say a few words about Moore approximations. Let L be a simply-connected CW complex, and x an integer n .

INTERSECTION SPACES AND HYPERSURFACE SINGULARITIES

Hodge Theory For Intersection Space Cohomology M. BANAGL E. HUNSICKER Given a perversity function in the sense of intersection homology theory, the method of intersection spaces assigns to certain oriented stratified spaces cell complexes whose ordinary reduced homology with real coefficients satisfies

Hodge Theory For Intersection Space Cohomology

problems in type II string theory that are not solved by either ordinary homology or by intersection homology. The role of intersection spaces in string theory is the topic of Section 5. Let us mention some immediate advantages of this spatial approach to Poincaré duality for singular spaces. Contrary to the intersection chain complex or L2-form

SINGULAR SPACES AND GENERALIZED POINCARÉ COMPLEXES

EXTENDING INTERSECTION SPACE COHOMOLOGY 3 The construction of the intersection spaces is built upon a homotopy theoretic technique called Moore approximation or spatial homology truncation.

INTERSECTION SPACE COHOMOLOGY OF THREE-STRATA

Description : Intersection cohomology assigns groups which satisfy a generalized form of Poincaré duality over the rationals to a stratified singular space. This 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.

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An Introduction to Homology Prerna Nadathur August 16, 2007 Abstract This paper explores the basic ideas of simplicial structures that lead to simplicial homology theory, and introduces singular homology in order to demonstrate the equivalence of homology groups of homeomorphic topological spaces. It concludes with a proof of the equivalence of

An Introduction to Homology - University of Chicago

For a given pseudomanifold, the homology of its intersection space is not isomorphic to its intersection homology, but the two sets of groups are closely related. The reflective diagrams to be introduced in this section will be used to display the precise relationship between the two theories in the isolated singularities case.

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This 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. The cornerstone of the method is a process of spatial homology truncation, whose functoriality properties are analyzed in detail.

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