

MORSE HOMOLOGY

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[Morse homology - Wikipedia](#)

In mathematics, specifically in the field of differential topology, Morse homology is a homology theory defined for any smooth manifold. It is constructed using the smooth structure and an auxiliary metric on the manifold, but turns out to be topologically invariant, and is in fact isomorphic to singular homology.

[A Brief History of Morse Homology - UCB Mathematics](#)

[A Brief History of Morse Homology](#) Yanfeng Chen Abstract Morse theory was originally due to Marston Morse [5]. It gives us a method to study the topology of a manifold using the information of the critical points of a Morse function defined on the manifold. Based on the same idea, Morse homology was introduced by Thom, Smale, Milnor, and Witten in various forms. This paper is a survey of some

[Morse and Morse-Bott Homology](#)

[Morse and Morse-Bott Homology](#) David Hurtubise Penn State Altoona math.aa.psu.edu University of Notre Dame March 1st, 2013 David Hurtubise Morse and Morse-Bott Homology, Betti numbers, Morse theory, and homology Perturbations Cascades Multicomplexes Betti numbers, Morse theory, and homology Betti numbers Morse inequalities Transversality Morse homology Perturbations Generic perturbations

[Morse homology - Yale University](#)

[Morse homology](#) Michael Landry April 2014 This is a supplementary note for a (hopefully) fun, informal one hour talk on Morse homology, which I wrote after digesting the opening pages of Michael Hutchings' great notes [2].

[Morse homology - planetmath.org](#)

Note: There is another way of realizing the Morse homology using Hodge theory, an idea pioneered by Edward Witten. His idea is essentially to conjugate the d operator by $e^{-s\mathcal{L}}$ and it can be shown that this conjugation again leads to another isomorphism between the set of harmonic forms and the De Rham cohomology.

[Morse homology - Revolvy](#)

In mathematics, specifically in the field of differential topology, Morse homology is a homology theory defined for any smooth manifold. It is constructed using the smooth structure and an auxiliary metric on the manifold, but turns out to be topologically invariant, and is in fact isomorphic to singular homology. Morse homology also

[Morse homology of n - DiVA portal](#)

[Morse homology of RPn](#) Sebastian Pöder June 2013

Abstract Given a real-valued function f on a manifold M , one can deduce topological information about M if f is a Morse function.

(PDF) Morse-Bott homology - ResearchGate

PDF | We give a new proof of the Morse Homology Theorem by constructing a chain complex associated to a Morse-Bott-Smale function that reduces to the Morse-Smale-Witten chain complex when the

A rapid course in Morse homology - MSRI

From Morse homology to Floer homology A rapid course in Morse homology Good news For every regular value a , the set X_a is a smooth manifold with boundary equal to $\partial X_a = \{p \in X \mid f(p) = a\}$. Fact If the interval $[a; b] \subset \mathbb{R}$ consists of regular values of f , then X_b is diffeomorphic to X_a , so X_a only changes when a passes through a critical value. The set of critical values of f has measure zero.