

RATIONAL HOMOTOPY THEORY

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Rational homotopy theory revealed an unexpected dichotomy among finite CW complexes: either the rational homotopy groups are zero in sufficiently high degrees, or they grow exponentially. Namely, let X be a simply connected space such that $H^*(X, \mathbb{Q})$ is a finite-dimensional \mathbb{Q} -vector space (for example, a finite CW complex has this property).

<http://kouisushi.co.uk/Rational-homotopy-theory-Wikipedia.pdf>

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In rational homotopy theory one simplifies these invariants. Instead of considering $H_n(X)$ and $\pi_n(X)$, we consider the rational homology groups $H_n(X; \mathbb{Q})$ and the rational homotopy groups $\pi_n(X) \otimes \mathbb{Q}$. In fact, these groups are \mathbb{Q} -vector spaces, and hence contain no torsion information. This disadvantage of losing some information is compensated by the fact that it is easier to calculate these

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Rational Homotopy Theory A Brief Introduction MSCS UIC

A simply connected space X is of finite rational type if condition (1) of Proposition 1.8 is satisfied. We can now finally specify clearly the subject presented in these notes. Rational homotopy theory is the study of rational homotopy types of spaces and of the properties of spaces and maps that are invariant under rational homotopy equivalence.

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as well as by the list of open problems in the final section of this monograph. The computational power of rational homotopy theory is due to the discovery by Quillen [135] and by Sullivan [144] of an explicit algebraic formulation.

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rational homotopy theory in nLab ncatlab org

This way rational homotopy theory connects homotopy theory and differential graded algebra. Akin to the Dold-Kan correspondence, the Sullivan construction in rational homotopy theory connects the conceptually powerful perspective of homotopy theory with the computationally powerful perspective of differential graded algebra.

<http://kouisushi.co.uk/rational-homotopy-theory-in-nLab-ncatlab-org.pdf>

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As the authors explain eloquently, the (computational) power of rational homotopy theory comes from its algebraic formulation, which was first discussed by Sullivan and the mathematician Daniel Quillen, and involves the use of graded objects with both an algebraic structure and a "differential". What is fascinating about the role of the differential is its connection with homotopy theory, and

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Koszul duality and rational homotopy theory

Koszul duality and rational homotopy theory Felix Wierstra Stockholm University Felix Wierstra Koszul duality and rational homotopy theory. Plan of the presentation Motivation and some facts from rational homotopy theory Introduction to Koszul duality Applications to rational homotopy theory Felix Wierstra Koszul duality and rational homotopy theory . Plan of the presentation Motivation and

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Rational homotopy theory staff math su se

Rational homotopy theory is the study of spaces up to rational homotopy equivalence. There are two seminal papers in the subject, Quillen's [20] and Sullivan's [25].

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Rational Homotopy Theory Graduate Texts in Mathematics

Rational Homotopy Theory (Graduate Texts in Mathematics, Band 205) | Yves Felix, Stephen Halperin, J.-C. Thomas | ISBN: 9781461265160 | Kostenloser Versand für alle Bücher mit Versand und Verkauf durch Amazon.

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Rational Homotopy Theory I University of Chicago

Rational Homotopy Theory I Dylan Wilson February 4, 2015 (1) As homotopy theorists we tend to understand spaces by breaking them up into easy to understand pieces.

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Rational homotopy theory a brief introduction ResearchGate

These notes contain a brief introduction to rational homotopy theory: its model category foundations, the Sullivan model and interactions with the theory of local commutative rings.

<http://koisushi.co.uk/Rational-homotopy-theory--a-brief-introduction-ResearchGate.pdf>

Rational Homotopy Theory II worldscientific com

This research monograph is a detailed account with complete proofs of rational homotopy theory for general non-simply connected spaces, based on the minimal models introduced by Sullivan in his original seminal article. Much of the content consists of new results, including generalizations of known

<http://koisushi.co.uk/Rational-Homotopy-Theory-II-worldscientific-com.pdf>

Rational homotopy theory Wiki Everipedia

Rational homotopy theory's wiki: In mathematics and specifically in topology, rational homotopy theory is a simplified version of homotopy theory for topological spaces, in which all torsion in the homotopy groups is ignored. It was founded by Dennis Sullivan and Dan Quillen.

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homotopy equivalent, or two chain complexes equivalent if they are quasi-isomorphic. There are even weaker notions of equivalence, for example, two spaces are \mathbb{Q} -equivalent if their rational homologies are

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