

Rational Homotopy Theory And Differential Forms Progress In Mathematics Vol 16

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“Rational homotopy theory is today one of the major trends in algebraic topology. Despite the great progress made in only a few years, a textbook properly devoted to this subject still was lacking until now... The appearance of the text in book form is highly welcome, since it will satisfy the need of many interested people.

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1. Introduction. A rationalization of a simply connected space X is a map $f: X \rightarrow X_Q$ such that the higher homotopy groups of X_Q are uniquely divisible and induces an isomorphism $\pi_n(X) \cong \pi_n(X_Q)$ for each $n \geq 2$. We call the homotopy type of X_Q the rational homotopy type of X and say X is rational if X_Q is homotopy equivalent to X .

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They add marvelous discussions of various related or connected themes, including Daniel Quillen’s work on rational homotopy which they characterize as dual to the way Sullivan proceeded: “Instead of using differential forms as the basic model, Quillen uses differential graded Lie algebras.”

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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 Daniel Quillen. This simplification of homotopy theory makes calculations much easier. Rational homotopy types of simply connected spaces can be identified with certain algebraic objects called Sullivan minimal models, which are commutative differential graded algebras

[Rational homotopy theory - Wikipedia](#)

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.

[rational homotopy theory in nLab](#)

While not full, the rational homotopy categories we consider contain a large class of parametrised spectra. The simplicity of the approach that we develop enables direct calculations in parametrised stable homotopy theory using differential graded modules.

[\[2011.06307\] Strict algebraic models for rational ...](#)

In each case the rational homotopy type of a topological space is the same as the isomorphism class of its algebraic model and the rational homotopy type of a continuous map is the same as the algebraic homotopy class of the corresponding morphism between models. These models make the rational homology and homotopy of a space transparent.

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New to the Second Edition: *Fully-revised appendices including an expanded discussion of the Hirsch lemma *Presentation of a natural proof of a Serre spectral sequence result *Updated content throughout the book, reflecting advances in the area of homotopy theory With its modern approach and timely revisions, this second edition of Rational Homotopy Theory and Differential Forms will be a ...

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rational homotopy theory is equivalent to the homotopy theory of reduced differential graded Lie algebras over \mathbb{Q} and also to the homotopy theory of 2-reduced differential graded cocommutative coalgebras over \mathbb{Q} . In Part I we exhibit a chain of several categories connected by pairs of

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rational equivalence if for all X -spectra E the induced map $\{B, E\}_X \rightarrow \{A, E\}_X \otimes \mathbb{Q}$ is an isomorphism of \mathbb{Z} -graded rational vector spaces. Equivalently, f is a rational equivalence if each of the induced maps $f_x: A_x \rightarrow B_x$ is a rational equivalence of spectra. In this article we are interested in studying the rational homotopy theory of X -spectra; that is, the ...

V. Braunack-Mayer 2020 arXiv:2011.06307v1 [math.AT] 12 Nov ...

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Here we (intend to) show that, accordingly, rational parameterized homotopy theory is presented by the the opposite of the homotopical category of dg-modules over cochain differential graded-commutative algebras in non-negative degrees.. under construction. Preliminaries Chain complexes

rational parameterized stable homotopy theory in nLab

A rational topological space is a topological space all whose (reduced) integral homology groups are vector spaces over the rational numbers \mathbb{Q} . Every simply connected topological space has a rationalization and passing to that rationalization amounts to forgetting all torsion information in the homology groups and the homotopy groups of that space.

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Included is a discussion of Postnikov towers and rational homotopy theory. This is then followed by an in-depth look at differential forms and de Thom's theorem on simplicial complexes. In addition, Sullivan's results on computing the rational homotopy type from forms is presented. New to the Second Edition:

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