

Rational Homotopy Theory And Differential Forms Progress In Mathematics Vol 16

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With its modern approach and timely revisions, this second edition of Rational Homotopy Theory and Differential Forms will be a valuable resource for graduate students and researchers in algebraic topology, differential forms, and homotopy theory.

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

Rational homotopy theory and differential graded category ...

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

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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

rational and f is a rational homotopy equivalence. Note that a weak equivalence is always a rational equivalence. Furthermore if $f: X \rightarrow Y$ is a map between rational spaces, then f is a rational homotopy equivalence if and only if f is a weak equivalence. The theory of rational homotopy is the study of spaces with rational equivalences.

RATIONAL HOMOTOPY THEORY - Radboud Universiteit

Rational Homotopy Theory and Differential Forms (2013) by Phillip Griffiths, Professor Emeritus in the School of Mathematics, and John Morgan, has been published by Springer New York. This revised and corrected version of the well-known Florence notes, circulated by the authors together with E. Friedlander, examines basic topology, emphasizing ...

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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

Annals of Mathematics

Rational homotopy theory Theorem (Quillen) There is an equivalence between the homotopy category of rational spaces and the homotopy category of differential graded Lie algebras over \mathbb{Q} . Felix Wierstra Koszul duality and rational homotopy theory

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Koszul duality and rational homotopy theory

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."

Rational Homotopy Theory and Differential Forms ...

rational homotopy theory (equivariant, stable, parametrized, equivariant & stable, parametrized & stable) dg-Algebra. graded vector space. ... differential K-theory. differential elliptic cohomology. differential cohomology in a cohesive topos. Chern-Weil theory ∞ -Chern-Weil theory. relative cohomology. Extra structure.

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With its modern approach and timely revisions, this second edition of Rational Homotopy Theory and Differential Forms will be a valuable resource for graduate students and researchers in algebraic topology, differential forms, and homotopy theory.

Rational Homotopy Theory and Differential Forms by Phillip ...

In its initial phase research in rational homotopy theory focused on the identi of these models. These included fication of rational homotopy invariants in terms the homotopy Lie algebra (the translation of the Whitehead product to the homo topy groups of the loop space OX under the isomorphism $11'+1(X) \sim 11.(OX\gg, LS$ category and cone length.

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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.

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[2011.06307] Strict algebraic models for rational ...

In fact, the homotopy theory for differential algebras over \mathbb{Q} and the theory of towers of principle fibrations with fibers $K(V, n)$, V a \mathbb{Q} -vector space, are equivalent. A differential graded algebra (= differential algebra) is a graded algebra

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