

Rational Homotopy Theory and Differential Forms (Progress in Mathematics)

Griffiths, Phillip

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Rational Homotopy Theory

Benoit Fresse



Rational Homotopy Theory:

Rational Homotopy Theory Yves Felix, Stephen Halperin, J.-C. Thomas, 2012-12-06 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 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 They also in principle always and in practice sometimes enable the calculation of other homotopy invariants such as the cup product in cohomology the Whitehead product in homotopy and rational Lusternik Schnirelmann category In its initial phase research in rational homotopy theory focused on the identification of these models These includedification of rational homotopy invariants in terms the homotopy Lie algebra the translation of the Whitehead product to the homotopy groups of the loop space ΩX under the isomorphism $H_1(\Omega X, \mathbb{Z}) \cong \pi_1(X, \mathbb{Z})$ Since then however work has concentrated on the properties of these invariants and has uncovered some truly remarkable and previously unsuspected phenomena For example If X is an n dimensional simply connected finite CW complex then either its rational homotopy groups vanish in degrees $2 \leq 2n$ or else they grow exponentially

Rational Homotopy Theory and Differential Forms Phillip Griffiths, John Morgan, 2013-10-02 This completely revised and corrected version of the well known Florence notes circulated by the authors together with E Friedlander examines basic topology emphasizing homotopy theory 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 Rham'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 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 valuable resource for graduate students and researchers in algebraic topology differential forms and homotopy theory

Rational Homotopy Theory II Steve Halperin, Yves Felix, Jean-claude Thomas, 2015-02-11 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 results in the simply connected case The monograph also includes an expanded version of recently published results about the growth and structure of the rational homotopy groups of finite dimensional CW complexes and concludes with a number of open questions This monograph is a sequel to the book *Rational Homotopy Theory* RHT published by Springer in 2001 but is self contained except only that some results from RHT are simply quoted without proof

Rational Homotopy Type Wen-tsun

Wu,2006-11-14 This comprehensive monograph provides a self contained treatment of the theory of I measure or Sullivan s rational homotopy theory from a constructive point of view It centers on the notion of calculability which is due to the author himself as are the measure theoretical and constructive points of view in rational homotopy The I measure is shown to differ from other homology and homotopy measures in that it is calculable with respect to most of the important geometric constructions encountered in algebraic topology This approach provides a new method of treatment and leads to various new results In particular an axiomatic system of I measure is formulated quite different in spirit from the usual Eilenberg Steenrod axiomatic system for homology and giving at the same time an algorithmic method of computation of the I measure in concrete cases The book will be of interest to researchers in rational homotopy theory and will provide them with new ideas and lines of research to develop further

Rational Homotopy Theory (Draft, Version 96.2) Steve Halperin,Yves Felix,Jean-Claude Thomas,1996

On PL DeRham Theory and Rational Homotopy Type Aldridge Knight Bousfield,V. K. A. M. Gugenheim,1976 The rational bold PL de Rham theory of Sullivan is developed and generalized using methods of Quillen s homotopical algebra For a field k of characteristic 0 a pair of contravariant adjoint functors $A \rightarrow B$ Simplicial sets right arrow over left arrow Commutative DG k algebras F is obtained which pass to the appropriate homotopy categories When k is the field of rationals these functors induce equivalence between the appropriate simplicial and algebraic rational homotopy categories The theory is not restricted to simply connected spaces It is closely related to the theory of rational localization for nilpotent spaces and rational completion in general

Rational Homotopy Theory Yves Felix,Stephen Halperin,J. C. Thomas,2011-04-26

Rational Homotopy Type Wen-tsun Wu,2014-01-15

Algebraic Topology - Rational Homotopy Yves Felix,2006-11-15 This proceedings volume centers on new developments in rational homotopy and on their influence on algebra and algebraic topology Most of the papers are original research papers dealing with rational homotopy and tame homotopy cyclic homology Moore conjectures on the exponents of the homotopy groups of a finite CW c complex and homology of loop spaces Of particular interest for specialists are papers on construction of the minimal model in tame theory and computation of the Lusternik Schnirelmann category by means articles on Moore conjectures on tame homotopy and on the properties of Poincar series of loop spaces

Rational Homotopy Theory Allan Baktoft,Københavns universitet,Dartmouth College,1993

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On the Rational Homotopy Theory of Function Spaces Samuel Bruce Smith,1993

Lectures on Rational Homotopy Theory John F. Oprea,1985

Rational Homotopy Theory and Derived Commutative Algebra Thomas Sutton,2016

Contributions to Rational Homotopy Theory of S1-spaces Doobum Lee,Dan Burghlelea,1990

Rational Homotopy Theory Yves Félix,Stephen Halperin,Jean-Claude Thomas,1997

Contributions to Rational Homotopy Theory John F. Oprea,1982

Algebraic Topology - Rational Homotopy Yves Felix,2014-01-15

Handbook of Homotopy Theory Haynes Miller,2020-01-23 The Handbook of Homotopy Theory

provides a panoramic view of an active area in mathematics that is currently seeing dramatic solutions to long standing open problems and is proving itself of increasing importance across many other mathematical disciplines The origins of the subject date back to work of Henri Poincaré and Heinz Hopf in the early 20th century but it has seen enormous progress in the 21st century A highlight of this volume is an introduction to and diverse applications of the newly established foundational theory of categories The coverage is vast ranging from axiomatic to applied from foundational to computational and includes surveys of applications both geometric and algebraic The contributors are among the most active and creative researchers in the field The 22 chapters by 31 contributors are designed to address novices as well as established mathematicians interested in learning the state of the art in this field whose methods are of increasing importance in many other areas

Homotopy of Operads and Grothendieck-Teichmüller Groups Benoit Fresse, 2017-05-22 The ultimate goal of this book is to explain that the Grothendieck Teichmüller group as defined by Drinfeld in quantum group theory has a topological interpretation as a group of homotopy automorphisms associated to the little 2 disc operad To establish this result the applications of methods of algebraic topology to operads must be developed This volume is devoted primarily to this subject with the main objective of developing a rational homotopy theory for operads The book starts with a comprehensive review of the general theory of model categories and of general methods of homotopy theory The definition of the Sullivan model for the rational homotopy of spaces is revisited and the definition of models for the rational homotopy of operads is then explained The applications of spectral sequence methods to compute homotopy automorphism spaces associated to operads are also explained This approach is used to get a topological interpretation of the Grothendieck Teichmüller group in the case of the little 2 disc operad This volume is intended for graduate students and researchers interested in the applications of homotopy theory methods in operad theory It is accessible to readers with a minimal background in classical algebraic topology and operad theory

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