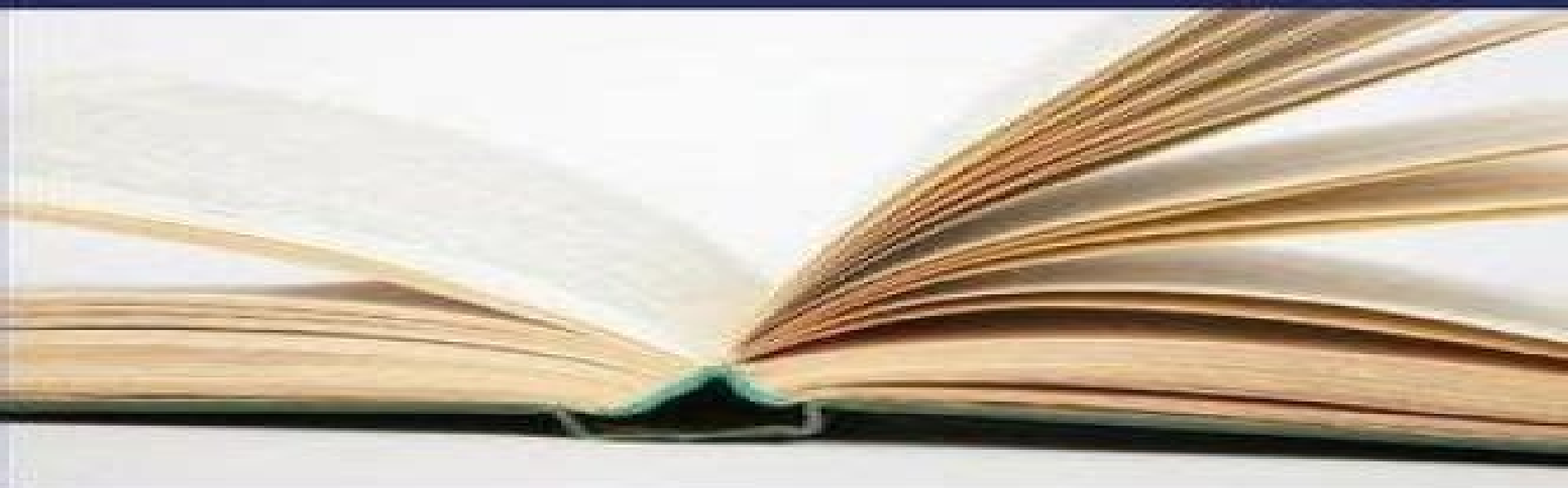




Linan Zhong  
Hao Zhao  
Wenhui Shen

# Computation of the Stable Homotopy Groups of Spheres



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# Computation Of The Stable Homotopy Groups Of Spheres

**Douglas C. Ravenel**



## **Computation Of The Stable Homotopy Groups Of Spheres:**

**Stable Homotopy Groups of Spheres** Stanley O. Kochman, 2006-11-14 A central problem in algebraic topology is the calculation of the values of the stable homotopy groups of spheres  $S$ . In this book a new method for this is developed based upon the analysis of the Atiyah-Hirzebruch spectral sequence. After the tools for this analysis are developed these methods are applied to compute inductively the first 64 stable stems a substantial improvement over the previously known 45. Much of this computation is algorithmic and is done by computer. As an application an element of degree 62 of Kervaire invariant one is shown to have order two. This book will be useful to algebraic topologists and graduate students with a knowledge of basic homotopy theory and Brown-Peterson homology for its methods as a reference on the structure of the first 64 stable stems and for the tables depicting the behavior of the Atiyah-Hirzebruch and classical Adams spectral sequences through degree 64.

Computation of the Stable Homotopy Groups of Spheres Linan Zhong, Hao Zhao, Wenhui Shen, 2014-08-25 This book concerns a central problem in algebraic topology: stable homotopy groups of spheres. Ever since J. P. Serre's historic result showed that the homotopy groups of spheres are finitely generated in the 1950s, the determination of homotopy groups of spheres has always been the focus of algebraic topologists. Up to now, still much has not been known to us. In our book we consider the stable part of the homotopy groups of spheres. We will mainly apply two computation tools to detect nontrivial elements of the stable homotopy groups of spheres: Adams spectral sequence and May spectral sequence. One part of this book is dedicated to obtaining some nontrivial product elements via the Adams spectral sequence. The remaining part is dedicated to approaching one important problem raised by M. Hovey: the convergence of a certain product in the Adams spectral sequence. The importance of this problem is its being related to the existence of a large series of secondary periodic elements of the stable homotopy groups of spheres.

Complex Cobordism and Stable Homotopy Groups of Spheres Douglas C. Ravenel, 2023-02-09 Since the publication of its first edition, this book has served as one of the few available on the classical Adams spectral sequence and is the best account on the Adams-Novikov spectral sequence. This new edition has been updated in many places, especially the final chapter which has been completely rewritten with an eye toward future research in the field. It remains the definitive reference on the stable homotopy groups of spheres. The first three chapters introduce the homotopy groups of spheres and take the reader from the classical results in the field, though the computational aspects of the classical Adams spectral sequence and its modifications, which are the main tools topologists have to investigate the homotopy groups of spheres. Nowadays the most efficient tools are the Brown-Peterson theory, the Adams-Novikov spectral sequence, and the chromatic spectral sequence, a device for analyzing the global structure of the stable homotopy groups of spheres and relating them to the cohomology of the Morava stabilizer groups. These topics are described in detail in Chapters 4 to 6. The revamped Chapter 7 is the computational payoff of the book, yielding a lot of information about the stable homotopy group of spheres. Appendices follow, giving self-contained accounts of the theory of

formal group laws and the homological algebra associated with Hopf algebras and Hopf algebroids The book is intended for anyone wishing to study computational stable homotopy theory It is accessible to graduate students with a knowledge of algebraic topology and recommended to anyone wishing to venture into the frontiers of the subject     **Symplectic Cobordism and the Computation of Stable Stems** Stanley O. Kochman, 1993 This memoir consists of two independent papers In the first The symplectic cobordism ring  $III$  the classical Adams spectral sequence is used to study the symplectic cobordism ring  $\text{capital Greek Omega superscript over subscript italic capital S subscript italic p}$  In the second The symplectic Adams Novikov spectral sequence for spheres we analyze the symplectic Adams Novikov spectral sequence converging to the stable homotopy groups of spheres     Complex Cobordism and Stable Homotopy Groups of Spheres Douglas C. Ravenel, 2003-11-25 Since the publication of its first edition this book has served as one of the few available on the classical Adams spectral sequence and is the best account on the Adams Novikov spectral sequence This new edition has been updated in many places especially the final chapter which has been completely rewritten with an eye toward future research in the field It remains the definitive reference on the stable homotopy groups of spheres The first three chapters introduce the homotopy groups of spheres and take the reader from the classical results in the field though the computational aspects of the classical Adams spectral sequence and its modifications which are the main tools topologists have to investigate the homotopy groups of spheres Nowadays the most efficient tools are the Brown Peterson theory the Adams Novikov spectral sequence and the chromatic spectral sequence a device for analyzing the global structure of the stable homotopy groups of spheres and relating them to the cohomology of the Morava stabilizer groups These topics are described in detail in Chapters 4 to 6 The revamped Chapter 7 is the computational payoff of the book yielding a lot of information about the stable homotopy group of spheres Appendices follow giving self contained accounts of the theory of formal group laws and the homological algebra associated with Hopf algebras and Hopf algebroids The book is intended for anyone wishing to study computational stable homotopy theory It is accessible to graduate students with a knowledge of algebraic topology and recommended to anyone wishing to venture into the frontiers of the subject     In and Around Stable Homotopy Groups of Spheres Zhouli Xu, 2017 My thesis focuses on computations of stable homotopy groups of spheres with applications and connections to differential geometry and motivic homotopy theory The Adams spectral sequences and Toda brackets play a major role in my work We have introduced two methods to compute Adams differentials and solve extension problems one is very technical but inductive using the algebraic Kahn Priddy theorem the other one is more systematic using a new connection between motivic homotopy theory and chromatic homotopy theory Combining both methods we have computed stable stems into a larger range As a consequence I solved the strong Kervaire invariant problem in dimension 62 and showed that the 61 sphere has a unique smooth structure which is the last odd dimensional case     Bordism, Stable Homotopy and Adams Spectral Sequences Stanley O. Kochman, 1996 This book is a compilation of lecture notes that were

prepared for the graduate course Adams Spectral Sequences and Stable Homotopy Theory given at The Fields Institute during the fall of 1995 The aim of this volume is to prepare students with a knowledge of elementary algebraic topology to study recent developments in stable homotopy theory such as the nilpotence and periodicity theorems Suitable as a text for an intermediate course in algebraic topology this book provides a direct exposition of the basic concepts of bordism characteristic classes Adams spectral sequences Brown Peterson spectra and the computation of stable stems The key ideas are presented in complete detail without becoming encyclopedic The approach to characteristic classes and some of the methods for computing stable stems have not been published previously All results are proved in complete detail Only elementary facts from algebraic topology and homological algebra are assumed Each chapter concludes with a guide for further study

*Stable Homotopy Around the Arf-Kervaire Invariant* Victor P. Snaith, 2009-03-28 Were I to take an iron gun And re it o towards the sun I grant twould reach its mark at last But not till many years had passed But should that bullet change its force And to the planets take its course Twould never reach the nearest star Because it is so very far from FACTS by Lewis Carroll 55 Let me begin by describing the two purposes which prompted me to write this monograph This is a book about algebraic topology and more especially about homotopy theory Since the inception of algebraic topology 217 the study of homotopy classes of continuous maps between spheres has enjoyed a very exc n n tional central role As is well known for homotopy classes of maps  $f: S^n \rightarrow S^n$  with  $n \geq 1$  the sole homotopy invariant is the degree which characterises the homotopy class completely The search for a continuous map between spheres of different dimensions and not homotopic to the constant map had to wait for its resolution until the remarkable paper of Heinz Hopf 111 In retrospect nding 3 an example was rather easy because there is a canonical quotient map from  $S^3$  to  $S^1$  1 2 the orbit space of the free circle action  $S^1 \times S^1 \rightarrow S^1$

*Homotopy Exponents and Stable Homotopy Groups of Spheres* Hao Zhao, Wenhui Shen, Linan Zhong, 2014-06-17 We all know that determining the homotopy groups of a topological space is one of the central problems in homotopy theory There is always a deep relation between the homotopy groups and other mathematical invariants which have wide applications in many fields such as geometric topology algebra algebraic K theory and algebraic geometry Via the view of homotopy theory we try to approach the homotopy groups from two different sides i Consider the general property of homotopy groups such as homotopy exponent ii Consider the computation of stable homotopy groups of spheres

**Differential Manifolds** Antoni A. Kosinski, 2013-07-02 Introductory text for advanced undergraduates and graduate students presents systematic study of the topological structure of smooth manifolds starting with elements of theory and concluding with method of surgery 1993 edition

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