

ON THE IMAGE OF SYMPLECTIC COBORDISM IN UNORIENTED COBORDISM

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ABSTRACT. It is shown in this paper that all 16th powers of unoriented cobordism classes can be represented by stably almost symplectic manifolds. The generators are coefficients in the expansion of a Conner-Floyd characteristic class of the symplectification of a tensor product of symplectic line bundles.

In this paper it will be shown that all 16th powers of unoriented cobordism classes are in the image of symplectic cobordism. The method will be similar to those of Ray [4]. Some alternative, more geometric constructions will be given without proof, because the computations involved are considerably longer.

Previously Stong [6] proved that in dimensions 20 and lower this image is zero, Segal [5] found that the first nonzero class in the image is $(RP^2)^{16}$, and Floyd [2] showed that the image must lie in the ring generated by certain 8th and 16th powers.

In Ray's methods one considers a pair of spaces for which the spectral sequence from ordinary cohomology to symplectic cobordism collapses, so that they are "free" (allowing infinite sums) over the symplectic cobordism of a point. Bases are found for the symplectic cobordism of the two spaces, frequently involving the characteristic classes of Conner and Floyd [1, Corollary 8.2]. A map is chosen from one space to the other, and the image of one basis is expanded in terms of the other. The coefficients are the desired classes in the symplectic cobordism of a point.

Here we will consider the space $HP^\infty \times HP^\infty$. Let K and K' denote the canonical symplectic line bundles over the two quaternionic projective space factors, and let $E_1(K)$ and $E_1(K')$ denote their Conner-Floyd characteristic classes in $\Omega_{Sp}^*(HP^\infty \times HP^\infty)$.

Then $E_1(K)^i E_1(K')^j$ is a basis in the sense mentioned above, for

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Symplectic Cobordism Ring Ii

SJ Ball



Symplectic Cobordism Ring II:

The Symplectic Cobordism Ring II Stanley O. Kochman, 1982 This paper is the second of three which investigate the ring of cobordism classes of closed smooth manifolds with a symplectic structure on their stable normal bundle The method of computation is the Adams spectral sequence In this paper the d_3 differentials are computed by Landweber Novikov and Massey product methods In addition cup one products are introduced in the theory of bordism chains and a complex is constructed to represent an Adams spectral sequence **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 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, 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 through 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

Canadian Journal of Mathematics, 1994-06 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 **Canadian Mathematical Bulletin** ,1995-09

Canadian Mathematical Bulletin ,1995-09 Algebraic Topology. Waterloo 1978 P. Hoffman,V. Snaith,2006-11-15

Equivariant Stable Homotopy Theory and the Kervaire Invariant Problem Michael A. Hill,Michael J. Hopkins,Douglas C. Ravenel,2021-07-29 A complete and definitive account of the authors resolution of the Kervaire invariant problem in stable homotopy theory **Algebraic Topology: Oaxtepec 1991** Martin C. Tangora,1993 This book consists of twenty nine

articles contributed by participants of the International Conference in Algebraic Topology held in July 1991 in Mexico In addition to papers on current research there are several surveys and expositions on the work of Mark Mahowald whose sixtieth birthday was celebrated during the conference The conference was truly international with over 130 mathematicians from fifteen countries It ended with a spectacular total eclipse of the sun a photograph of which appears as the frontispiece The papers range over much of algebraic topology and cross over into related areas such as K theory representation theory and Lie groups Also included is a chart of the Adams spectral sequence and a bibliography of Mahowald s publications

Normal Structures and Bordism Theory, with Applications to MSp Nigel Ray,Robert M. Switzer,Larry Taylor,1977

In the first of these three papers we discuss the problem of enumerating the bordism classes which can be carried on a fixed manifold by means of varying its normal structure The main application is to Sp structures on Alexander s family of manifolds and is presented in the third paper The middle paper collects together the requisite definitions and calculations **Adams**

Memorial Symposium on Algebraic Topology: Volume 2 Nigel Ray,1992-05-07 J Frank Adams had a profound influence on algebraic topology and his work continues to shape its development The International Symposium on Algebraic Topology held in Manchester during July 1990 was dedicated to his memory and virtually all of the world s leading experts took part This two volume work constitutes the proceedings of the symposium the articles contained here range from overviews to reports of work still in progress as well as a survey and complete bibliography of Adams own work These proceedings form an important compendium of current research in algebraic topology and one that demonstrates the depth of Adams many contributions to the subject This second volume is oriented towards homotopy theory the Steenrod algebra and the Adams spectral sequence In the first volume the theme is mainly unstable homotopy theory homological and categorical

Canadian Journal of Mathematics ,1994-06 **Manifolds with Singularities and the Adams-Novikov Spectral Sequence** Boris I. Botvinnik,1992-07-23 Many interesting results not widely known outside the USSR are brought together in this analysis of the Adams Novikov spectral sequence a tool that has enabled the computation of generators and relations to describe homotopy groups *Canadian Journal of Mathematics* ,1994-06 **Global Dynamics, Phase Space**

Transport, Orbits Homoclinic to Resonances, and Applications Stephen Wiggins, This monograph which grew out of a series of lectures delivered by Stephen Wiggins at the Fields Institute in early 1993 is concerned with the geometrical viewpoint of the global dynamics of nonlinear dynamical systems With appropriate examples and concise explanations Wiggins unites many different topics into one volume and makes a unique contribution to the field Engineers physicists chemists and mathematicians who work on issues related to the global dynamics of nonlinear dynamical systems will find these lectures very useful Moment Maps, Cobordisms, and Hamiltonian Group Actions Victor Guillemin, Viktor L. Ginzburg, Yael Karshon, 2002 During the last 20 years localization has been one of the dominant themes in the area of equivariant differential geometry Typical results are the Duistermaat Heckman theory the Berline Vergne Atiyah Bott localization theorem in equivariant de Rham theory and the quantization commutes with reduction theorem and its various corollaries To formulate the idea that these theorems are all consequences of a single result involving equivariant cobordisms the authors have developed a cobordism theory that allows the objects to be non compact manifolds A key ingredient in this non compact cobordism is an equivariant geometrical object which they call an abstract moment map This is a natural and important generalization of the notion of a moment map occurring in the theory of Hamiltonian dynamics The book contains a number of appendices that include introductions to proper group actions on manifolds equivariant cohomology Spin \mathfrak{m} c structures and stable complex structures It is geared toward graduate students and research mathematicians interested in differential geometry It is also suitable for topologists Lie theorists combinatorists and theoretical physicists Prerequisite is some expertise in calculus on manifolds and basic graduate level differential geometry **Algebraic Cobordism and \mathbb{K} -Theory** Victor Percy Snaith, 1979 A decomposition is given of the S type of the classifying spaces of the classical groups This decomposition is in terms of Thom spaces and by means of it cobordism groups are embedded into the stable homotopy of classifying spaces This is used to show that each of the classical cobordism theories and also complex K theory is obtainable as a localization of the stable homotopy ring of a classifying space **Canadian Journal of Mathematics**, 1994-06 **Grants and Awards**, 1972

Enjoying the Beat of Phrase: An Psychological Symphony within **Symplectic Cobordism Ring II**

In a global used by monitors and the ceaseless chatter of fast transmission, the melodic beauty and psychological symphony produced by the published word frequently disappear into the back ground, eclipsed by the persistent sound and interruptions that permeate our lives. But, located within the pages of **Symplectic Cobordism Ring II** a stunning fictional value full of organic thoughts, lies an immersive symphony waiting to be embraced. Crafted by an outstanding musician of language, this charming masterpiece conducts visitors on a psychological trip, well unraveling the concealed songs and profound affect resonating within each cautiously crafted phrase. Within the depths of the poignant analysis, we shall explore the book is central harmonies, analyze its enthralling writing fashion, and submit ourselves to the profound resonance that echoes in the depths of readers souls.

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Table of Contents Symplectic Cobordism Ring II

1. Understanding the eBook Symplectic Cobordism Ring II
 - The Rise of Digital Reading Symplectic Cobordism Ring II
 - Advantages of eBooks Over Traditional Books
2. Identifying Symplectic Cobordism Ring II
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Symplectic Cobordism Ring II
 - User-Friendly Interface
4. Exploring eBook Recommendations from Symplectic Cobordism Ring II
 - Personalized Recommendations

- Symplectic Cobordism Ring Ii User Reviews and Ratings
- Symplectic Cobordism Ring Ii and Bestseller Lists
- 5. Accessing Symplectic Cobordism Ring Ii Free and Paid eBooks
 - Symplectic Cobordism Ring Ii Public Domain eBooks
 - Symplectic Cobordism Ring Ii eBook Subscription Services
 - Symplectic Cobordism Ring Ii Budget-Friendly Options
- 6. Navigating Symplectic Cobordism Ring Ii eBook Formats
 - ePub, PDF, MOBI, and More
 - Symplectic Cobordism Ring Ii Compatibility with Devices
 - Symplectic Cobordism Ring Ii Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Symplectic Cobordism Ring Ii
 - Highlighting and Note-Taking Symplectic Cobordism Ring Ii
 - Interactive Elements Symplectic Cobordism Ring Ii
- 8. Staying Engaged with Symplectic Cobordism Ring Ii
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Symplectic Cobordism Ring Ii
- 9. Balancing eBooks and Physical Books Symplectic Cobordism Ring Ii
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Symplectic Cobordism Ring Ii
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Symplectic Cobordism Ring Ii
 - Setting Reading Goals Symplectic Cobordism Ring Ii
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Symplectic Cobordism Ring Ii
 - Fact-Checking eBook Content of Symplectic Cobordism Ring Ii

- Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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