#### ON THE IMAGE OF SYMPLECTIC COBORDISM IN UNORIENTED COBORDISM

FRED W. ROUSH

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  $\Omega^4_{SD}(HP^{\infty} \times HP^{\infty})$ .

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

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<sup>@</sup> American Mathematical Society 1973

# **Symplectic Cobordism Ring Ii**

P. Hoffman, V. Snaith

## **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 d3 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 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

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

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Algebraic Topology.

Materloo 1978 P. Hoffman, V. Snaith, 2006-11-15

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

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