

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 $\Omega_{Sp}^*(HP^\infty \times HP^\infty)$.

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 I

Daniela Niemeyer



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