



Equivariant maps between spheres: Nagasaki's examples

M. C. Crabb

Abstract. Let G be a non-trivial compact Lie group and let $S(U)$ and $S(V)$ be the unit spheres in non-zero orthogonal G -modules U and V . For particular G , U and V such that the fixed submodules U^G and V^G are trivial and $\dim U > \dim V$, we write down G -maps $S(U) \rightarrow S(V)$ illustrating the existence theorems [6, 7] of I. Nagasaki.

Mathematics Subject Classification. 55M20, 55P91, 55Q91.

Keywords. Borsuk–Ulam theorem, equivariant map, representation sphere.

1. Introduction

Let G be a non-trivial compact Lie group and let U and V be non-zero orthogonal G -modules such that the fixed submodules U^G and V^G are trivial.

Suppose that there exists a G -map $\phi : S(U) \rightarrow S(V)$ from the unit sphere in U to the unit sphere in V . The classical Borsuk–Ulam theorem asserts that if $G = \mathbb{Z}/2\mathbb{Z}$ then $\dim U \leq \dim V$. More generally, if G is a torus or an elementary abelian p -group, for a prime p , then necessarily¹ $\dim U \leq \dim V$. It is shown in [6, 7] that for any other group G there is an example in which $\dim U > \dim V$. We give some explicit examples of such maps whose existence was proved in [6, 7] using equivariant obstruction theory. The first, in which $G = \mathbb{T} \times \mathbb{Z}/n\mathbb{Z}$ is the product of the circle group \mathbb{T} of complex numbers of modulus 1 and the cyclic group $\mathbb{Z}/n\mathbb{Z}$ of order $n > 1$, gives an elementary counterexample to a conjecture in [3, Section 4.2]. Nagasaki's theorems, building on earlier results, especially of Marzantowicz [5], Bartsch [2] and Waner [8], were established by reduction, using group-theoretic methods, to a number of cases of a special type, for which the assertions were verified using algebraic topological methods. The explicit examples written down here can be used to eliminate the topological arguments in [6, 7].

¹The Borel cohomology Euler class $e(V)$ of V , with \mathbb{Q} -coefficients for a torus, \mathbb{F}_p -coefficients for an elementary abelian p -group, is non-zero if $V^G = 0$. If there is a G -map $S(U) \rightarrow S(V)$, then $e(U)$ divides $e(V)$, which is impossible if $\dim U > \dim V$.

Equivariant Maps Of Spheres Into The Classical Groups

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Equivariant Maps Of Spheres Into The Classical Groups 95:

The Geometry Of Spherical Space Form Groups Peter B Gilkey,1989-09-01 New Edition The Geometry of Spherical Space Form Groups 2nd Edition In this volume the geometry of spherical space form groups is studied using the eta invariant The author reviews the analytical properties of the eta invariant of Atiyah Patodi Singer and describes how the eta invariant gives rise to torsion invariants in both K theory and equivariant bordism The eta invariant is used to compute the K theory of spherical space forms and to study the equivariant unitary bordism of spherical space forms and the Pinc and Spinc equivariant bordism groups for spherical space form groups This leads to a complete structure theorem for these bordism and K theory groups There is a deep relationship between topology and analysis with differential geometry serving as the bridge This book is intended to serve as an introduction to this subject for people from different research backgrounds This book is intended as a research monograph for people who are not experts in all the areas discussed It is written for topologists wishing to understand some of the analytic details and for analysts wishing to understand some of the topological ideas It is also intended as an introduction to the field for graduate students

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fibrewise homotopy theory and so forth will be special cases For example Baues 7 and more recently Dwyer and Spalinski 53 have presented such general theories derived from an earlier theory of Quillen but none of these seem to provide quite the right framework for our purposes We have preferred in this monograph to develop fibre wise homotopy theory more or less ab initio assuming only a basic knowledge of ordinary homotopy theory at least in the early sections but our aim has been to keep the exposition reasonably self contained

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