

## Equivariant Stable Homotopy Theory

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equivariant stable homotopy theory in nLab  
stable homotopy theory by reading Lewis-May-Steinberger's book [LMS86] on equivariant stable homotopy theory and letting  $G = *$ , but this may not appeal to everyone. In any case, perhaps this isn't necessarily a good reference for nontrivial groups. Unstable equivariant questions are very natural, and somewhat reasonable.

EQUIVARIANT STABLE HOMOTOPY THEORY  
In mathematics, more specifically in topology, the equivariant stable homotopy theory is a subfield of equivariant topology that studies a spectrum with group action instead of a space with group action, as in stable homotopy theory. The field has become more active recently because of its connection to algebraic K-theory.

Proper Equivariant Stable Homotopy Theory arXiv:1908 . . .

Our model for genuine proper  $G$ -equivariant stable homotopy theory is the category of orthogonal  $G$ -spectra; the equivalences are those morphisms that induce isomorphisms of equivariant stable homotopy groups for all compact subgroups of  $G$ .

EQUIVARIANT STABLE HOMOTOPY THEORY

EQUIVARIANT stable homotopy theory was invented by G. B. Segal in the early 1970s [45]. He was motivated by his work with Atiyah [9] on equivariant K-theory, generalizing an earlier theorem of Atiyah's on the K-theory of classifying spaces of finite groups to compact

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PREREQUISITES (ON EQUIVARIANT STABLE HOMOTOPY) ENGLAND

Equivariant Stable Homotopy Theory. Authors; L. Gaunce Lewis Jr. J. Peter May; Mark Steinberger; Book. 108 Citations; 33 Readers; 5.1k Downloads; Part of the Lecture Notes in Mathematics book series (LNM, volume 1213) Log in to check access. Buy eBook. USD 59.99

Stable homotopy theory - Wikipedia

Lecture 3: Equivariant stable homotopy theory A solution to the Arf-Kervaire invariant problem New Aspects of Homotopy Theory and Algebraic Geometry Tokyo City University November 5, 2009 Mike Hill University of Virginia Mike Hopkins Harvard University Doug Ravenel University of Rochester. 3.1. Our strategy Recall our goal is to prove Main Theorem.

Equivariant stable homotopy theory - University of Rochester

In mathematics, stable homotopy theory is that part of homotopy theory (and thus algebraic topology) concerned with all structure and phenomena that remain after sufficiently many applications of the suspension functor. A founding result was the Freudenthal suspension theorem, which states...

A SURVEY OF EQUIVARIANT STABLE HOMOTOPY THEORY

independent, introduction to equivariant stable homotopy theory, one may consult the survey articles by Adams and Greenlees-May. We restrict our attention to nite groups (as opposed to compact Lie groups) throughout, which allows to simplify the treatment at various points.

Equivariant Stable Homotopy Theory | The n-Category Café

Our model for genuine proper  $G$ -equivariant stable homotopy theory is the category of orthogonal  $G$ -spectra; the equivalences are those morphisms that induce isomorphisms of equivariant stable homotopy groups for all compact subgroups of  $G$ . This class of  $\mathbb{Z}$ -isomorphisms is part of a symmetric monoidal stable model

Contents

Equivariant homotopy theory is homotopy theory for the case that a group  $G$  acts on all the topological spaces or other objects involved, hence the homotopy theory of topological  $G$ -spaces. The canonical homomorphisms of topological  $G$ -spaces are  $G$ -equivariant continuous functions, and the canonical choice of homotopies between these are  $G$ -equivariant continuous homotopies (for trivial  $G$ -action on the interval).

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Many proofs in equivariant homotopy theory are done by induction up the fixed-point sets, beginning with the smallest,  $X^G$ , and finishing with the largest,  $X^1 = X$ . A convenient class of  $G$ -spaces in which to do such proofs is the class of  $G$ -CW-complexes. We will come to these

1 Equivariant stable homotopy theory - University of Rochester

Equivariant stable homotopy theory over some topological group  $GG$  is the stable homotopy theory of  $G$ -spectra. This includes the naive  $G$ -spectra which constitute the actual stabilization of equivariant homotopy theory, but is more general, one speaks of genuine  $GG$ -spectra.

Equivariant Stable Homotopy Theory

EQUIVARIANT STABLE HOMOTOPY THEORY 5 Isotropy groups and universal spaces. An unbased  $G$ -space is said to be  $G$ -free if  $X^H = *$  whenever  $H \neq 1$ . A based  $G$ -space is  $G$ -free if  $X^H = *$  whenever  $H \neq 1$ . More generally, for  $x \in X$  the isotropy group at  $x$  is the stabilizer  $G_x$ ; given any collection  $F$  of subgroups of  $G$ ,

Equivariant Stable Homotopy Theory (Lecture Notes in . . .

STABLE EQUIVARIANT THEORY (A) Definitions of stable equivariant homotopy theory In attempting to understand what the right notion of equivariant stable homotopy theory should be, it is useful to recall three different points of view toward ordinary stable homotopy theory.

LECTURES ON EQUIVARIANT STABLE HOMOTOPY THEORY Contents

stable homotopy theory, the equivariant Spanier-Whitehead category, denoted  $A \wedge G$ . The objects are the nite  $G$ -CW complexes, and the morphisms are denoted and dened as

Equivariant stable homotopy theory - Wikipedia

In other words, I'd expect that: (i) naive equivariant stable homotopy isn't fancy equivariant monoidal, (ii) non-naive equivariant stable homotopy is fancy equivariant monoidal. Furthermore, I'd conjecture that non-naive  $G$ -equivariant stable homotopy theory is the universal stabilization of unstable  $G$ -equivariant homotopy theory which is fancy monoidal.

[1908.00779] Proper equivariant stable homotopy theory

ground in space level equivariant homotopy theory to make sense of the spectrum level counterpart that we will focus on later. The group. We shall restrict our attention to compact Lie groups  $G$ , although the basic unstable homotopy theory works equally well for general topological groups. To

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