

## Equivariant Stable Homotopy Theory

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Connections between classical and motivic stable homotopy theory - Marc LevineEquivariant Stable Homotopy Theory

EQUIVARIANT STABLE HOMOTOPY THEORY 5 Isotropy groups and universal spaces. An unbased G-space is said to be G-free if  $XH = \text{pt}$  whenever  $H \neq 1$ . A based G-space is G-free if  $XH = \text{pt}$  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

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.

Equivariant stable homotopy theory - Wikipedia

Stable homotopy theory is made to give sense to cohomology theories with a strong geometric flavour, the very fundamental ones being cobordism and K-theory. These two examples need, as an input, the notion of (equivariant) vector bundle (equivariant vector bundle over the point are the finite dimensional representations of the group).

Equivariant Stable Homotopy Theory | The n-Category Café

Equivariant stable homotopy theory over some topological group  $G$  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  $G$ -spectra .

equivariant stable homotopy theory in nLab

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Equivariant Stable Homotopy Theory | L. Gaunce Jr. Lewis ...

Equivariant Stable Homotopy Theory. Authors; L. Gaunce Lewis Jr. J. Peter May; Mark Steinberger; Book. 150 Citations; 6.4k Downloads; Part of the Lecture Notes in Mathematics book series (LNM, volume 1213) Download book PDF. Chapters Table of contents (11 chapters) About About this book;

Equivariant Stable Homotopy Theory | SpringerLink

The stable homotopy category can be obtained from the category of orthogonal spectra by formally inverting the class of  $\Sigma$ -isomorphisms. Now we get to the smash product of orthogonal spectra. We define a bimorphism  $b: (X;Y) \rightarrow Z$  from a pair of orthogonal spectra  $(X;Y)$  to an orthogonal spectrum  $Z$  as a collection of based  $O(p)$ -equivariant maps  $b_p: X \wedge p \rightarrow Y \wedge p$ .

LECTURES ON EQUIVARIANT STABLE HOMOTOPY THEORY Contents

Equivariant Stable Homotopy Theory Notes This repository holds lecture notes for Andrew Blumberg's class on equivariant homotopy theory at UT Austin in Spring 2017. This repo holds the source code, in.tex,.bib, and.cls files; the compiled PDF is available here.

Equivariant Stable Homotopy Theory Notes - GitHub

A first attempt to construct an equivariant stable homotopy theory would define the set of stable  $G$ -maps ( $G$  is finite) from  $X$  to  $Y$  to be the direct limit  $\varinjlim [Z \wedge X, x \wedge Y]_G$ , where the  $G$ -actions on  $Z \wedge X$  and  $Z \wedge Y$  are obtained by directly suspending the actions on  $X$  and  $Y$ , and  $c^{-1} \wedge c$  denotes  $G$ -homotopy classes of  $G$ -maps.

A SURVEY OF EQUIVARIANT STABLE HOMOTOPY THEORY

Akhil Mathew, Niko Naumann, Justin Noel Let  $G$  be a finite group and  $\mathcal{C}$  be a family of subgroups of  $G$ . We introduce a class of  $\mathcal{C}$ -equivariant spectra that we call  $\mathcal{C}$ -nilpotent. This definition fits into the general theory of torsion, complete, and nilpotent objects in a symmetric monoidal stable  $\mathcal{C}$ -category, with which we begin.

Nilpotence and descent in equivariant stable homotopy theory

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 that given any pointed space.

Stable homotopy theory - Wikipedia

From this point on, classical techniques of equivariant stable homotopy theory enter the proof. These include the Wirthmüller  $\mathcal{C}$ -isomorphism, geometric fixed points, isotropy separation and the tom Dieck splitting. The central idea is to do induction on the order of subgroups and use the case of free  $G$ -spectra as the induction basis.

Rigidity in equivariant stable homotopy theory

stable homotopy theory by reading Lewis-May-Steinberger 's book [LMS86] on equivariant stable homotopy theory and letting  $G = \mathbb{Z}/2$ , 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.

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).

equivariant homotopy theory in nLab

The stable versions of equivariant and motivic homotopy theory play important roles in the geometry of manifolds, algebraic cycles, and quadratic forms. Stable equivariant homotopy theory is the study of topological spaces equipped with a group action up to stable equivariant weak equivalence.

GALOIS EQUIVARIANCE AND STABLE MOTIVIC HOMOTOPY THEORY

The Banff International Research Station will host the "Equivariant Stable Homotopy Theory and p-adic Hodge Theory" workshop in Banff from March 1 to March 06, 2020. Algebraic topology has had a long and fruitful collaboration with algebraic geometry, with each providing techniques and problems to the other.

20w5217: Equivariant Stable Homotopy Theory and p-adic ...

A trivialization, or framing, of the normal bundle of  $M$ . The normal bundle of  $M \rightarrow \mathbb{R}^{n+k}$  is  $\nu M$ . The trivialization denotes the same stable framing as  $\nu M$ .

Stable homotopy theory - Universitetet i oslo

The IHES 2020 Summer School on "Motivic, Equivariant and Non-commutative Homotopy Theory" will be held from 6 to 17 July 2020. This school is open to everybody but intended primarily for young participants, including PhD students and postdoctoral fellows.

Motivic, Equivariant and Non-commutative Homotopy Theory ...

This volume introduces equivariant homotopy, homology, and cohomology theory, along with various related topics in modern algebraic topology. It explains the main ideas behind some of the most striking recent advances in the subject.