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at Riverside, November 2017 Structural aspects of group cohomology rings via equivariant cohomology, University of James C. Cameron - University of California, Los Angeles Sunday, Jun 28, 2020 . Search for: Introductory Lectures on Equivariant Cohomology Introductor y Lectures on Equivariant Cohomology University of California, Berkeley Singularities of mappings, equivariant cohomology, and pipe dreams Given a generic smooth map  $f: X \rightarrow Y$ , one can describe the locus where the differential of  $f$  drops rank in terms of the homotopy class of  $f$ : there is a universal formula for the homology class of the locus in terms of characteristic classes

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geometry using  
polyfolds. The  
construction is twofold,  
one is for closed  
theories like equivari-  
ant Gromov-Witten  
theory, the other is for  
open theories like  
equivariant Floer  
cohomology. Morse-  
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Theories Using

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Cohomology".  
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 Cohomology*, *Annals of  
 Mathematics Studies*  
 204, Princeton  
 University Press,  
 Princeton, NJ, 2020.  
 The chapters of the  
 book correlate fairly  
 closely with the  
 lectures. Loring W.  
 Tu Michael Viscardi,  
 University of California,  
 Berkeley Recent work  
 on equivariant aspects  
 of mirror symmetry has  
 discovered relations  
 between the  
 equivariant quantum  
 cohomology of  
 symplectic resolutions  
 and Casimir-type  
 connections (among  
 many other objects).  
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 example of this theory  
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 fundamental space in



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convexity theorem and  
toric manifolds come  
next and we give a  
comprehensive  
treatment of  
Equivariant  
cohomology. The  
monograph also  
contains detailed  
treatment of the  
Duistermaat-Heckman  
Theorem, geometric  
quantization, and flat  
connections on 2-  
manifolds.Hamiltonian  
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Cohomology ...In  
mathematics,  
equivariant topology is  
the study of topological  
spaces that possess  
certain symmetries. In  
studying topological  
spaces, one often  
considers continuous  
maps  $f : X \rightarrow Y$   
{\displaystyle f:X\to Y}

, and while equivariant  
topology also considers  
such maps, there is the  
additional constraint  
that each map  
"respects symmetry" in  
both its domain and  
target  
space.Equivariant  
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algebras defined in  
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varieties. We prove this  
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this paper, we give  
another construction of  
equivariant Floer  
cohomology with  
respect to a finite  
group action and use it  
to prove some  
invariance properties  
of these spectral

sequences; prove that some of these spectral sequences agree; improve Hendricks's Smith-type inequalities; give some theoretical and practical computability results for these spectral sequences; define some new ...A flexible construction of equivariant Floer homology and ...For  $G$  a Lie group acting on a symplectic manifold  $(M, \omega)$  preserving a pair of Lagrangians  $L_0, L_1$ , under certain hypotheses not including equivariant transversality we construct a  $G$ -equivariant Floer c...A simplicial construction of  $G$ -equivariant Floer homology ...Author (s) This book gives a clear introductory account of equivariant cohomology, a central topic in algebraic

topology. Equivariant cohomology is concerned with the algebraic topology of spaces with a group action, or in other words, with symmetries of spaces. First defined in the 1950s, it has been introduced into K-theory and algebraic geometry, but it is in algebraic topology that the concepts are the most transparent and the proofs are the simplest.

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Anne Dranowski

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Michael Viscardi, University of California, Berkeley Recent work on equivariant aspects of mirror symmetry has discovered relations between the equivariant quantum cohomology of symplectic resolutions and Casimir-type connections (among many other objects). We provide a new example of this theory in the setting of the affine Grassmannian, a fundamental space in

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where the differential of  $f$  drops rank in terms of the homotopy class of  $f$ : there is a universal formula for the homology class of the locus in terms of characteristic classes of the vector bundles  $TX$  and  $f^*(TY)$ .

WHAT IS ...

Equivariant Cohomology?

The convexity theorem and toric manifolds come next and we give a comprehensive treatment of Equivariant cohomology. The monograph also contains detailed treatment of the Duistermaat-Heckman Theorem, geometric quantization, and flat connections on 2-manifolds.

Quantum cohomology and 3D mirror symmetry | Algebra Pure ...

You can find most of the lectures by searching for "An Introduction to Equivariant Cohomology". Everything in the lectures is in my new book *Introductory Lectures on Equivariant Cohomology*, *Annals of Mathematics Studies* 204, Princeton University Press, Princeton, NJ, 2020. The chapters of the book correlate fairly closely with the lectures.

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Author (s) This book gives a clear introductory account of equivariant cohomology, a central topic in algebraic topology. Equivariant cohomology is concerned with the algebraic topology of spaces with a group action, or in other words, with symmetries of spaces. First defined in the 1950s, it has been introduced into K-theory and algebraic geometry, but it is in algebraic topology that the concepts are the most transparent and the proofs are the simplest.

**A flexible construction of equivariant Floer homology and ...**



In mathematics, equivariant topology is the study of topological spaces that possess certain symmetries. In studying topological spaces, one often considers continuous maps  $f : X \rightarrow Y$ , and while equivariant topology also considers such maps, there is the additional constraint that each map "respects symmetry" in both its domain and target space.

A simplicial construction of G-equivariant Floer homology ...

$E G \times G X \rightarrow X / G$ .  
 $\{ \displaystyle EG \times G X \to X / G \}$  is a homotopy equivalence and so one gets:  $H G * ( X ; \Lambda ) = H * ( X / G ; \Lambda )$ .  
 $\{ \displaystyle H _ { G } ^ { * } ( X ; \Lambda ) \} = H ^ { * } ( X / G ; \Lambda )$ . } It is

also possible to define the equivariant cohomology.  $H G * ( X ; A ) \{ \displaystyle H _ { G } ^ { * } ( X ; A ) \}$  of.  $X$ .

### **Equivariant topology - Wikipedia**

University of California, Berkeley Professor

Katrin Wehrheim, Chair

In this paper, we propose a general method of defining equivariant theories in symplectic geometry using polyfolds. The construction is twofold, one is for closed theories like equivariant Gromov-Witten theory, the other is for open theories like equivariant Floer cohomology.

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