Connective Real *K*-Theory of Finite Groups

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Connective K Theory Of Finite Groups

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Connective K Theory Of Finite Groups:

 The Connective K-Theory of Finite Groups Robert Ray Bruner,John Patrick Campbell Greenlees,2003 Includes a paper that deals the connective K homology and cohomology of finite groups G This title uses the methods of algebraic geometry to study the ring ku DEGREES BG where ku denotes connective complex K theory It describes the variety in terms of the category of abelian p subgroups of G for primes p dividing the group   *Connective Real K-Theory of Finite Groups* Robert Ray Bruner,John Patrick Campbell Greenlees,2010 This book is about equivariant real and complex topological K theory for finite groups Its main focus is on the study of real connective K theory including ko BG as a ring and ko_ BG as a module over it In the course of their study the authors define equivariant versions of connective KO theory and connective K theory with reality in the sense of Atiyah which give well behaved Noetherian uncompleted versions of the theory They prove local cohomology and completion theorems for these theories giving a means of calculation as well as establishing their formal credentials In passing from the complex to the real theories in the connective case the authors describe the known failure of descent and explain how the eta Bockstein spectral sequence provides an effective substitute This formal framework allows the authors to give a systematic calculation scheme to quantify the expectation that ko BG should be a mixture of representation theory and group cohomology It is characteristic that this starts with ku BG and then uses the local cohomology theorem and the Bockstein spectral sequence to calculate ku_ BG ko BG and ko_ BG To give the skeleton of the answer the authors provide a theory of ko characteristic classes for representations with the Pontrjagin classes of quaternionic representations being the most important Building on the general results and their previous calculations the authors spend the bulk of the book giving a large number of detailed calculations for specific groups cyclic quaternion dihedral A_4 and elementary abelian 2 groups The calculations illustrate the richness of the theory and suggest many further lines of investigation They have been applied in the verification of the Gromov Lawson Rosenberg conjecture for several new classes of finite groups This book is about equivariant real and complex topological K theory for finite groups Its main focus is on the study of real connective K theory including ko BG as a ring and ko_ BG as a module over it In the course of their study the authors define equivariant versions of connective KO theory and connective K theory with reality in the sense of Atiyah which give well behaved Noetherian uncompleted versions of the theory They prove local cohomology and completion theorems for these theories giving a means of calculation as well as establishing their formal credentials In passing from the complex to the real theories in the connective case the authors describe the known failure of descent and explain how the eta Bockstein spectral sequence provides an effective substitute This formal framework allows the authors to give a systematic calculation scheme to quantify the expectation that ko BG should be a mixture of representation theory and group cohomology It is characteristic that this starts with ku BG and then uses the local cohomology theorem and the Bockstein spectral sequence to calculate ku_ BG ko BG and ko_ BG To give the skeleton of the answer the authors provide a theory of

ko characteristic classes for representations with the Pontrjagin classes of quaternionic representations being the most important Building on the general results and their previous calculations the authors spend the bulk of the book giving a large number of detailed calculations for specific groups cyclic quaternion dihedral A_4 and elementary abelian 2 groups The calculations illustrate the richness of the theory and suggest many further lines of investigation They have been applied in the verification of the Gromov Lawson Rosenberg conjecture for several new classes of finite groups   <u>The Connective K-Theory of Finite Groups</u> Robert Ray Bruner,2014-09-11 Includes a paper that deals the connective K homology and cohomology of finite groups G This title uses the methods of algebraic geometry to study the ring ku DEGREES BG where ku denotes connective complex K theory It describes the variety in terms of the category of abelian p subgroups of G for primes p dividing the group   **A Relationship Between Connective K-theory of Finite Groups and Number Theory** Michael Keogh,2018 We study the relationship between Euler classes in connective K theory of certain metacyclic groups and Eulerian periods living in algebraic number fields The division of these Euler classes living in connective K Theory map into a subgroup of the cyclotomic units in the algebraic number fields With the use of algebraic number theory we further the computations in connective K theory for certain cases   **Isomorphism Conjectures in K- and L-Theory** Wolfgang Lück,2025-09-30 This monograph is devoted to the Isomorphism Conjectures formulated by Baum and Connes and by Farrell and Jones These conjectures are central to the study of the topological K theory of reduced group C algebras and the algebraic K and L theory of group rings They have far reaching applications in algebra geometry group theory operator theory and topology The book provides a detailed account of the development of these conjectures their current status methods of proof and their wide ranging implications These conjectures are not only powerful tools for concrete computations but also play a crucial role in proving other major conjectures Among these are the Borel Conjecture on the topological rigidity of aspherical closed manifolds the stable Gromov Lawson Rosenberg Conjecture on the existence of Riemannian metrics with positive scalar curvature on closed Spin manifolds Kaplansky s Idempotent Conjecture and the related Kadison Conjecture the Novikov Conjecture on the homotopy invariance of higher signatures and conjectures concerning the vanishing of the reduced projective class group and the Whitehead group of torsionfree groups   *Handbook of Homotopy Theory* Haynes Miller,2020-01-23 The Handbook of Homotopy Theory provides a panoramic view of an active area in mathematics that is currently seeing dramatic solutions to long standing open problems and is proving itself of increasing importance across many other mathematical disciplines The origins of the subject date back to work of Henri Poincar and Heinz Hopf in the early 20th century but it has seen enormous progress in the 21st century A highlight of this volume is an introduction to and diverse applications of the newly established foundational theory of categories The coverage is vast ranging from axiomatic to applied from foundational to computational and includes surveys of applications both geometric and algebraic The contributors are among the most active and creative researchers in the field The 22 chapters by

31 contributors are designed to address novices as well as established mathematicians interested in learning the state of the art in this field whose methods are of increasing importance in many other areas **An Alpine Expedition through Algebraic Topology** Christian Ausoni,Kathryn Hess,Brenda Johnson,Wolfgang Lück,Jérôme Scherer,2014-06-09 This volume contains the proceedings of the Fourth Arolla Conference on Algebraic Topology which took place in Arolla Switzerland from August 20 25 2012 The papers in this volume cover topics such as category theory and homological algebra functor homology algebraic theory cobordism categories group theory generalized cohomology theories and multiplicative structures the theory of iterated loop spaces Smith Toda complexes and topological modular forms **Global Homotopy Theory** Stefan Schwede,2018-09-06 Equivariant homotopy theory started from geometrically motivated questions about symmetries of manifolds Several important equivariant phenomena occur not just for a particular group but in a uniform way for all groups Prominent examples include stable homotopy K theory or bordism Global equivariant homotopy theory studies such uniform phenomena i e universal symmetries encoded by simultaneous and compatible actions of all compact Lie groups This book introduces graduate students and researchers to global equivariant homotopy theory The framework is based on the new notion of global equivalences for orthogonal spectra a much finer notion of equivalence than is traditionally considered The treatment is largely self contained and contains many examples making it suitable as a textbook for an advanced graduate class At the same time the book is a comprehensive research monograph with detailed calculations that reveal the intrinsic beauty of global equivariant phenomena Homotopy Theory and Related Topics Mamoru Mimura,2006-11-14

Mathematical Reviews ,2004 *The Geometry of Spherical Space Form Groups* Peter B. Gilkey,1989 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 analysists wishing to understand some of the topological ideas It is also intended as an introduction to the field for graduate students **Operator Theory** William Arveson,Ronald G. Douglas,American Mathematical Society,1990 *Bulletin of the Institute of Mathematics, Academia Sinica* ,2007 **Proceedings of Symposia in Pure Mathematics** ,1990 Reviews in Complex Analysis, 1980-1986 ,1989 *Reviews in K-theory, 1940-84* Bruce A. Magurn,1985 *Complex Cobordism, Classifying Spaces of Finite Groups, and Generalized Characters* Kevin Philip

Lee,1998   **Reviews in Functional Analysis, 1980-86** ,1989   Reviews in Partial Differential Equations, 1980-86, as Printed in Mathematical Reviews ,1988   **Reviews in Global Analysis, 1980-86 as Printed in Mathematical Reviews** ,1988

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