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From Representation Theory to Homotopy Groups

Donald M. Davis



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From Representation Theory To Homotopy Groups

**Augustin Banyaga, Joshua A
Leslie, Thierry Robart**



From Representation Theory To Homotopy Groups:

From Representation Theory to Homotopy Groups Donald M. Davis, 2002 A formula for the odd primary v_1 periodic homotopy groups of a finite H space in terms of its K theory and Adams operations has been obtained by Bousfield This work applies this theorem to give explicit determinations of the v_1 periodic homotopy groups of E_8 5 and E_8 3 thus completing the determination of all odd primary v_1 periodic homotopy groups of all compact simple Lie groups a project suggested by Mimura in 1989

Representation Theory of Homotopy Types with at Most Two Nontrivial Homotopy Groups Hans-Joachim Baues, Yuri Drozd, 1998

Transformation Groups and Representation Theory T. Tom Dieck, 2006-11-15

From Representation Theory to Mathematical Physics and Back Mikhail Khovanov, Joshua Sussan, Anton Zeitlin, 2025-05-14 This volume is a proceedings of a workshop at the Simons Center for Geometry and Physics from May 31 June 4 2022 The workshop highlighted progress in the areas of vertex operator algebras conformal field theory categorification low dimensional topology and representation theory of affine Lie algebras loop groups and quantum groups In the past 40 years string theory gave rise to the mathematical theory of vertex operator algebras which led to the construction of representations of affine Lie algebras and the Moonshine module of the Monster group These mathematical constructions have in turn led to ideas about 3 dimensional quantum gravity In another direction the discovery of the Jones polynomial led to a physical construction of 3 dimensional topological quantum field theories TQFTs which in turn advanced many mathematical developments in quantum groups and low dimensional topology Louis Crane and Igor Frenkel introduced the categorification program with the goal of upgrading 3 dimensional TQFTs coming from representation theory of quantum groups to 4 dimensional TQFTs This idea gave rise to the development of link homologies constructed from representation theoretic algebraic geometric combinatorial and physical structures Articles in this volume present both classical and new results related to these topics They will be interesting to researchers and graduate students working in mathematical aspects of modern quantum field theory

Representation Theory of Lie Groups Jeffrey Adams, David Vogan, 2000-01-25 This book contains written versions of the lectures given at the PCMI Graduate Summer School on the representation theory of Lie groups The volume begins with lectures by A Knapp and P Trapa outlining the state of the subject around the year 1975 specifically the fundamental results of Harish Chandra on the general structure of infinite dimensional representations and the Langlands classification Additional contributions outline developments in four of the most active areas of research over the past 20 years The clearly written articles present results to date as follows R Zierau and L Barchini discuss the construction of representations on Dolbeault cohomology spaces D Vogan describes the status of the Kirillov Kostant philosophy of coadjoint orbits for unitary representations K Vilonen presents recent advances in the Beilinson Bernstein theory of localization And Jian Shu Li covers Howe s theory of dual reductive pairs Each contributor to the volume presents the topics in a unique comprehensive and accessible manner geared toward advanced graduate students and researchers

Students should have completed the standard introductory graduate courses for full comprehension of the work. The book would also serve well as a supplementary text for a course on introductory infinite dimensional representation theory.

Group Representation Theory Meinolf Geck, 2007-05-07 After the pioneering work of Brauer in the middle of the 20th century in the area of the representation theory of groups many entirely new developments have taken place and the field has grown into a very large field of study. This progress and the remaining open problems e.g. the conjectures of Alperin, Dade, Broué, James etc. have ensured that group representation theory remains a lively area of research. In this book the leading researchers in the field contribute a chapter in their field of specialty namely Broué, Finite reductive groups and p -subgroups, Carlson, Cohomology and representations of finite groups, Geck, Representations of Hecke algebras, Seitz, Topics in algebraic groups, Kessar and Linckelmann, Fusion systems and blocks, Serre, On finite subgroups of Lie groups, Thévenaz, The classification of endo permutation modules, and Webb, Representations and cohomology of categories. Representation

Theory of Artin Algebras Maurice Auslander, Idun Reiten, Sverre O. Smalø, 1997-08-21 This book is an introduction to the contemporary representation theory of Artin algebras by three very distinguished practitioners in the field. Beyond assuming some first year graduate algebra and basic homological algebra the presentation is entirely self contained so the book is suitable for any mathematicians especially graduate students wanting an introduction to this active field written in a clear comprehensive style with full proofs. It can very well serve as an excellent reference as well as a textbook for graduate students. EMS Newsletter

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. **Geometric**

and Topological Aspects of the Representation Theory of Finite Groups Jon F. Carlson, Srikanth B. Iyengar, Julia Pevtsova, 2018-10-04 These proceedings comprise two workshops celebrating the accomplishments of David J. Benson on the occasion of his sixtieth birthday. The papers presented at the meetings were representative of the many mathematical subjects he has worked on with an emphasis on group representations and cohomology. The first workshop was titled Groups, Representations and Cohomology and held from June 22 to June 27 2015 at Sabhal Mòr Ostaig on the Isle of Skye, Scotland. The second was a combination of a summer school and workshop on the subject of Geometric Methods in the Representation Theory of Finite Groups and took place at the Pacific Institute for the Mathematical Sciences at the University of British Columbia in Vancouver from July 27 to August 5 2016. The contents of the volume include a composite of both summer school material and workshop derived survey articles on geometric and topological aspects of the representation theory of finite groups. The mission of the annually sponsored Summer Schools is to train and draw new students and help Ph.D. students transition to independent research. **Topology, Geometry, and Algebra: Interactions**

and new directions Alejandro Adem, Gunnar Carlsson, Ralph L. Cohen, 2001 This volume presents the proceedings from the conference on Topology Geometry and Algebra Interactions and New Directions held in honor of R James Milgram at Stanford University in August 1999 The meeting brought together distinguished researchers from a variety of areas related to algebraic topology and its applications Papers in the book present a wide range of subjects reflecting the nature of the conference Topics include moduli spaces configuration spaces surgery theory homotopy theory knot theory group actions and more Particular emphasis was given to the breadth of interaction between the different areas *Representation Theory and Complex Geometry* Neil Chriss, Victor Ginzburg, 2009-12-24 The book is largely self contained There is a nice introduction to symplectic geometry and a charming exposition of equivariant K theory Both are enlivened by examples related to groups An attractive feature is the attempt to convey some informal wisdom rather than only the precise definitions As a number of results are due to the authors one finds some of the original excitement This is the only available introduction to geometric representation theory it has already proved successful in introducing a new generation to the subject Bulletin of the AMS

The \$AB\$ Program in Geometric Analysis: Sharp Sobolev Inequalities and Related Problems Olivier

Druet, Emmanuel Hebey, 2002 Function theory and Sobolev inequalities have been the target of investigation for many years Sharp constants in these inequalities constitute a critical tool in geometric analysis The AB programme is concerned with sharp Sobolev inequalities on compact Riemannian manifolds This text summarizes the results of contemporary research and gives an up to date report on the field Infinite Dimensional Lie Groups In Geometry And Representation Theory Augustin Banyaga, Joshua A Leslie, Thierry Robart, 2002-07-12 This book constitutes the proceedings of the 2000 Howard conference on Infinite Dimensional Lie Groups in Geometry and Representation Theory It presents some important recent developments in this area It opens with a topological characterization of regular groups treats among other topics the integrability problem of various infinite dimensional Lie algebras presents substantial contributions to important subjects in modern geometry and concludes with interesting applications to representation theory The book should be a new source of inspiration for advanced graduate students and established researchers in the field of geometry and its applications to mathematical physics

Basics of Representation Theory Udayan Bhattacharya, 2025-02-20 Delve into the captivating world of Basics of Representation Theory a comprehensive guide designed for students researchers and enthusiasts eager to explore the intricate symmetries and structures that underpin modern mathematics Our book offers a detailed introduction to foundational concepts providing a solid understanding of group actions linear representations and character theory From there it explores the algebraic structures of irreducible representations breaking down the decomposition into irreducible components and examining the properties of characters Readers will journey through diverse topics including the representation theory of symmetric groups Lie groups and algebraic groups as well as advanced topics such as the representation theory of finite groups the Langlands program and applications in quantum mechanics and number theory

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Homotopy Theory via Algebraic Geometry and Group Representations Mark E. Mahowald, 1998 The academic year 1996-97 was designated as a special year in Algebraic Topology at Northwestern University Evanston IL In addition to guest lecturers and special courses an international conference was held entitled Current trends in algebraic topology with applications to algebraic geometry and physics The series of plenary lectures included in this volume indicate the great breadth of the conference and the lively interaction that took place among various areas of mathematics Original research papers were submitted and all submissions were refereed to the usual journal standards

Categorical Decomposition Techniques in Algebraic Topology Gregory Arone, John Hubbuck, Ran Levi, Michael Weiss, 2012-12-06 The book consists of articles at the frontier of current research in Algebraic Topology It presents recent results by top notch experts and is intended primarily for researchers and graduate students working in the field of algebraic topology Included is an important article by Cohen Johnnes and Yan on the homology of the space of smooth loops on a manifold M endowed with the Chas Sullivan intersection product as well as an article by Goerss Henn and Mahowald on stable homotopy groups of spheres which uses the cutting edge technology of topological modular forms

Topological Methods in Galois Representation Theory Victor P. Snaith, 2014-01-15 An advanced monograph on Galois representation theory by one of the world's leading algebraists this volume is directed at mathematics students who have completed a graduate course in introductory algebraic topology Topics include Abelian and nonabelian cohomology of groups characteristic classes of forms and algebras explicit Brauer induction theory and much more 1989 edition

Representations and Cohomology: Volume 2, Cohomology of Groups and Modules D. J. Benson, 1991-08-22 This is the second of two volumes which will provide an introduction to modern developments in the representation theory of finite groups and associative algebras The subject is viewed from the perspective of homological algebra and the theory of representations of finite dimensional algebras the author emphasises modular representations and the homological algebra associated with their categories This volume concentrates on the cohomology of groups always with representations in view however It begins with a background reference chapter then proceeds to an overview of the algebraic topology and K theory associated with cohomology of groups especially the work of Quillen Later chapters look at algebraic and topological proofs of the finite generation of the cohomology ring of a finite group and an algebraic approach to the Steenrod operations in group cohomology The book cumulates in a chapter dealing with the theory of varieties for

modules Much of the material presented here has never appeared before in book form Consequently students and research workers studying group theory and indeed algebra in general will be grateful to Dr Benson for supplying an exposition of a good deal of the essential results of modern representation theory

Fusion Systems in Algebra and Topology Michael Aschbacher, Radha Kessar, Robert Oliver, 2011-08-25 A fusion system over a p group S is a category whose objects form the set of all subgroups of S whose morphisms are certain injective group homomorphisms and which satisfies axioms first formulated by Puig that are modelled on conjugacy relations in finite groups The definition was originally motivated by representation theory but fusion systems also have applications to local group theory and to homotopy theory The connection with homotopy theory arises through classifying spaces which can be associated to fusion systems and which have many of the nice properties of p completed classifying spaces of finite groups Beginning with a detailed exposition of the foundational material the authors then proceed to discuss the role of fusion systems in local finite group theory homotopy theory and modular representation theory This book serves as a basic reference and as an introduction to the field particularly for students and other young mathematicians

Representations of Finite and Compact Groups Barry Simon, 1996 This text is a comprehensive pedagogical presentation of the theory of representation of finite and compact Lie groups It considers both the general theory and representation of specific groups Representation theory is discussed on the following types of groups finite groups of rotations permutation groups and classical compact semisimple Lie groups Along the way the structure theory of the compact semisimple Lie groups is exposed This is aimed at research mathematicians and graduate students studying group theory

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