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## The Spectrum of a Module Category

Henning Krause



American Mathematical Society

# Spectrum Of A Module Category

**I.M. James**



## **Spectrum Of A Module Category:**

**The Spectrum of a Module Category** Henning Krause, 2001 These notes present an introduction into the spectrum of the category of modules over a ring We discuss the general theory of pure injective modules and concentrate on the isomorphism classes of indecomposable pure injective modules which form the underlying set of this spectrum The interplay between the spectrum and the category of finitely presented modules provides new insight into the geometrical and homological properties of the category of finitely presented modules Various applications from representation theory of finite dimensional algebras are included

**The Category of  $H$ -Modules over a Spectrum** Jack Palmer Sanders, 1974 The category of  $H$  modules over a ring spectrum is introduced We prove that mapping cones can be constructed in the category and that these mapping cones are unique up to equivalence Other  $H$  modules are constructed by induction and a limit process We prove that each of the classical Thom spectra  $MO$   $MSO$   $MU$   $MSU$  and  $M\mathbb{S}p$  is a convergent  $H$  module over itself Finally we construct a tower of homology theories and natural transformations from  $MU$

**$\mathbb{S}$ -Modules in the Category of Schemes** Po Hu, 2003 Gives a theory  $\mathbb{S}$  modules for Morel and Voevodsky's category of algebraic spectra over an arbitrary field  $k$  This work also defines universe change functors as well as other important constructions analogous to those in topology such as the twisted half smash product

**Equivariant Orthogonal Spectra and  $\mathbb{S}$ -Modules** M. A. Mandell, J. Peter May, 2002 The last few years have seen a revolution in our understanding of the foundations of stable homotopy theory Many symmetric monoidal model categories of spectra whose homotopy categories are equivalent to the stable homotopy category are now known whereas no such categories were known before 1993 The most well known examples are the category of  $\mathbb{S}$  modules and the category of symmetric spectra We focus on the category of orthogonal spectra which enjoys some of the best features of  $\mathbb{S}$  modules and symmetric spectra and which is particularly well suited to equivariant generalization We first complete the nonequivariant theory by comparing orthogonal spectra to  $\mathbb{S}$  modules We then develop the equivariant theory For a compact Lie group  $G$  we construct a symmetric monoidal model category of orthogonal  $G$  spectra whose homotopy category is equivalent to the classical stable homotopy category of  $G$  spectra We also complete the theory of  $\mathbb{S}_G$  modules and compare the categories of orthogonal  $G$  spectra and  $\mathbb{S}_G$  modules A key feature is the analysis of change of universe change of group fixed point and orbit functors in these two highly structured categories for the study of equivariant stable homotopy theory

**Stable Categories and Structured Ring Spectra** Andrew J. Blumberg, Teena Gerhardt, Michael A. Hill, 2022-07-21 A graduate level introduction to the homotopical technology in use at the forefront of modern algebraic topology

**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 Poincaré 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

**Purity, Spectra and Localisation** Mike Prest, 2009-06-04 A unified coherent account of the algebraic aspects and uses of the Ziegler spectrum It may be used as an introductory graduate level text providing relevant background material and a wealth of illustrated examples An extensive index and thorough referencing also make this book an ideal reference

**Rings, Modules, and Algebras in Stable Homotopy Theory** Anthony D. Elmendorf, 1997 This book introduces a new point set level approach to stable homotopy theory that has already had many applications and promises to have a lasting impact on the subject Given the sphere spectrum  $S$  the authors construct an associative commutative and unital smash product in a complete and cocomplete category of  $S$  modules whose derived category is equivalent to the classical stable homotopy category This construction allows for a simple and algebraically manageable definition of  $S$  algebras and commutative  $S$  algebras in terms of associative or associative and commutative products  $R \wedge SR \rightarrowtail R$  These notions are essentially equivalent to the earlier notions of  $A$  infinity and  $E$  infinity ring spectra and the older notions feed naturally into the new framework to provide plentiful examples There is an equally simple definition of  $R$  modules in terms of maps  $R \wedge SM \rightarrowtail M$  When  $R$  is commutative the category of  $R$  modules also has a

**Structured Ring Spectra** Andrew Baker, Birgit Richter, 2004-11-18 This book contains some important new contributions to the theory of structured ring spectra

*High-dimensional Manifold Topology - Proceedings Of The School* F Thomas Farrell, Wolfgang Luck, 2003-10-17 Contents A Foliated Squeezing Theorem for Geometric Modules A Bartels et al Equivariant Cellular Homology and Its Applications B Chorny Remarks on a Conjecture of Gromov and Lawson W Dwyer et al Chain Complex Invariants for Group Actions L E Jones The Ore Condition Affiliated Operators and the Lamplighter Group P A Linnell et al The Surgery Exact Sequence Revisited E K Pedersen K theory for Proper Smooth Actions of Totally Disconnected Groups J Sauer Geometric Chain Homotopy Equivalences between Novikov Complexes D Sch tz and other papers Readership Graduate students and researchers in geometry and topology Keywords High Dimensional Manifold Topology Operator Algebras K Theory L Theory Foliated Control Theory

*High-dimensional Manifold Topology* Abdus Salam International Centre for Theoretical Physics, 2003 Contents A Foliated Squeezing Theorem for Geometric Modules A Bartels et al Equivariant Cellular Homology and Its Applications B Chorny Remarks on a Conjecture of Gromov and Lawson W Dwyer et al Chain Complex Invariants for Group Actions L E Jones The Ore Condition Affiliated Operators and the Lamplighter Group P A Linnell et al The Surgery Exact Sequence Revisited E K Pedersen K theory for Proper Smooth Actions of Totally Disconnected Groups J

Sauer Geometric Chain Homotopy Equivalences between Novikov Complexes D Sch tz and other papers

**Handbook of Algebraic Topology** I.M. James, 1995-07-18 Algebraic topology also known as homotopy theory is a flourishing branch of modern mathematics It is very much an international subject and this is reflected in the background of the 36 leading experts who have contributed to the Handbook Written for the reader who already has a grounding in the subject the volume consists of 27 expository surveys covering the most active areas of research They provide the researcher with an up to date overview of this exciting branch of mathematics

**Infinite Length Modules** Henning Krause, Claus M. Ringel, 2012-12-06 This volume presents the invited lectures of a conference devoted to Infinite Length Modules held at Bielefeld September 7 11 1998 Some additional surveys have been included in order to establish a unified picture The scientific organization of the conference was in the hands of K Brown Glasgow P M Cohn London I Reiten Trondheim and C M Ringel Bielefeld The conference was concerned with the role played by modules of infinite length when dealing with problems in the representation theory of algebras The investigation of such modules always relies on information concerning modules of finite length for example simple modules and their possible extensions But the converse is also true recent developments in representation theory indicate that a full understanding of the category of finite dimensional modules even over a finite dimensional algebra requires consideration of infinite dimensional thus infinite length modules For instance the important notion of tameness uses one parameter families of modules or alternatively generic modules and they are of infinite length If one tries to exhibit a presentation of a module category it turns out to be essential to take into account the indecomposable modules which are algebraically compact or equivalently pure injective Specific methods have been developed over the last few years dealing with such special situations as group algebras of finite groups or noetherian rings and there are surprising relations to topology and geometry The conference outlined the present state of the art

*Generalized Cohomology* Akira Kōno, Dai Tamaki, 2006 Aims to give an exposition of generalized cohomology theories that can be read by a group of mathematicians who are not experts in algebraic topology This title starts with basic notions of homotopy theory and introduces the axioms of generalized cohomology theory It also discusses various types of generalized cohomology theories

**Spectra and the Steenrod Algebra** H.R. Margolis, 2011-08-18 I have intended this book to be more than just the sum of its chapters and the introduction is in part an attempt to spell out what the more is Algebraic topology is the study of topological problems by algebraic means More precisely this has come to be framed as the study of topological categories by means of functors to algebraic categories Beyond the basic definitions and structure the focus is often on particular problems for example Adams use of K theory to solve the vector fields on spheres problem On the other hand there are contributions of a more global nature yielding insight into the overall structure of some topological category for example Quillen's work on rational homotopy type This book is intended primarily as a contribution of this latter sort So while there will be a variety of particular examples and computations and although the structure being developed has significant application to many

specific problems some of which are considered here the major thrust of the text is toward understanding the global structure and linkage of the topological and algebraic categories considered the stable homotopy category and the category of modules over the Steenrod algebra

**Topological Modular Forms** Christopher L. Douglas, John Francis, André G. Henriques, Michael A. Hill, 2014-12-04 The theory of topological modular forms is an intricate blend of classical algebraic modular forms and stable homotopy groups of spheres The construction of this theory combines an algebro geometric perspective on elliptic curves over finite fields with techniques from algebraic topology particularly stable homotopy theory It has applications to and connections with manifold topology number theory and string theory This book provides a careful accessible introduction to topological modular forms After a brief history and an extended overview of the subject the book proper commences with an exposition of classical aspects of elliptic cohomology including background material on elliptic curves and modular forms a description of the moduli stack of elliptic curves an explanation of the exact functor theorem for constructing cohomology theories and an exploration of sheaves in stable homotopy theory There follows a treatment of more specialized topics including localization of spectra the deformation theory of formal groups and Goerss Hopkins obstruction theory for multiplicative structures on spectra The book then proceeds to more advanced material including discussions of the string orientation the sheaf of spectra on the moduli stack of elliptic curves the homotopy of topological modular forms and an extensive account of the construction of the spectrum of topological modular forms The book concludes with the three original pioneering and enormously influential manuscripts on the subject by Hopkins Miller and Mahowald

**Interactions between Homotopy Theory and Algebra** Luchezar L. Avramov, 2007 This book is based on talks presented at the Summer School on Interactions between Homotopy theory and Algebra held at the University of Chicago in the summer of 2004 The goal of this book is to create a resource for background and for current directions of research related to deep connections between homotopy theory and algebra including algebraic geometry commutative algebra and representation theory The articles in this book are aimed at the audience of beginning researchers with varied mathematical backgrounds and have been written with both the quality of exposition and the accessibility to novices in mind

**Galois Extensions of Structured Ring Spectra/Stably Dualizable Groups** John Rognes, 2008 The author introduces the notion of a Galois extension of commutative  $S$  algebras  $E_\infty$  ring spectra often localized with respect to a fixed homology theory There are numerous examples including some involving Eilenberg Mac Lane spectra of commutative rings real and complex topological  $K$  theory Lubin Tate spectra and cochain  $S$  algebras He establishes the main theorem of Galois theory in this generality Its proof involves the notions of separable and étale extensions of commutative  $S$  algebras and the Goerss Hopkins Miller theory for  $E_\infty$  mapping spaces He shows that the global sphere spectrum  $S$  is separably closed using Minkowski's discriminant theorem and he estimates the separable closure of its localization with respect to each of the Morava  $K$  theories He also defines Hopf Galois extensions of commutative  $S$  algebras and studies the complex cobordism spectrum  $MU$  as a common

integral model for all of the local Lubin Tate Galois extensions The author extends the duality theory for topological groups from the classical theory for compact Lie groups via the topological study by J R Klein and the  $p$  complete study for  $p$  compact groups by T Bauer to a general duality theory for stably dualizable groups in the  $E$  local stable homotopy category for any spectrum  $E$

Bimonoidal Categories,  $E_n$ -Monoidal Categories, and Algebraic K-Theory Niles Johnson, Donald Yau, 2024-10-23 Bimonoidal categories are categorical analogues of rings without additive inverses They have been actively studied in category theory homotopy theory and algebraic K theory since around 1970 There is an abundance of new applications and questions of bimonoidal categories in mathematics and other sciences The three books published by the AMS in the Mathematical Surveys and Monographs series under the title Bimonoidal Categories  $E_n$  Monoidal Categories and Algebraic K Theory Volume I Symmetric Bimonoidal Categories and Monoidal Bicategories Volume II Braided Bimonoidal Categories with Applications and Volume III From Categories to Structured Ring Spectra this book provide a unified treatment of bimonoidal and higher ring like categories their connection with algebraic K theory and homotopy theory and applications to quantum groups and topological quantum computation With ample background material extensive coverage detailed presentation of both well known and new theorems and a list of open questions this work is a user friendly resource for beginners and experts alike Part 1 of this book is a detailed study of enriched monoidal categories pointed diagram categories and enriched multicategories Using this machinery Part 2 discusses the rich interconnection between the higher ring like categories homotopy theory and algebraic K theory Starting with a chapter on homotopy theory background the first half of Part 2 constructs the Segal K theory functor and the Elmendorf Mandell K theory multifunctor from permutative categories to symmetric spectra For the latter the detailed treatment here includes identification and correction of some subtle errors concerning its extended domain The second half applies the K theory multifunctor to small ring bipermutative braided ring and  $E_n$  monoidal categories to obtain respectively strict ring  $E_\infty$   $E_2$  and  $E_n$  symmetric spectra

Adams Memorial Symposium on Algebraic Topology: Volume 2 Nigel Ray, 1992-05-07 J Frank Adams had a profound influence on algebraic topology and his work continues to shape its development The International Symposium on Algebraic Topology held in Manchester during July 1990 was dedicated to his memory and virtually all of the world s leading experts took part This two volume work constitutes the proceedings of the symposium the articles contained here range from overviews to reports of work still in progress as well as a survey and complete bibliography of Adams s own work These proceedings form an important compendium of current research in algebraic topology and one that demonstrates the depth of Adams many contributions to the subject This second volume is oriented towards homotopy theory the Steenrod algebra and the Adams spectral sequence In the first volume the theme is mainly unstable homotopy theory homological and categorical

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