

Mathematical
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Topological Modular Forms

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Editors

American Mathematical Society



Topological Modular Forms Mathematical Surveys And Monographs

Katrin Zwirgmaier



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New Directions in Homotopy Theory Nitya Kitchloo, Mona Merling, Jack Morava, Emily Riehl, W. Stephen Wilson, 2018-05-29 This volume contains the proceedings of the Second Mid Atlantic Topology Conference held from March 12-13, 2016 at Johns Hopkins University in Baltimore, Maryland. The focus of the conference and subsequent papers was on applications of innovative methods from homotopy theory in category theory, algebraic geometry and related areas, emphasizing the work of younger researchers in these fields.

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.

Character Map In Non-abelian Cohomology, The: Twisted, Differential, And Generalized Domenico Fiorenza, Hisham Sati, Urs Schreiber, 2023-08-11 This book presents a novel development of fundamental and fascinating aspects of algebraic topology and mathematical physics: extra-ordinary and further generalized cohomology theories enhanced to twisted and differential geometric form, with focus on firstly their rational approximation by generalized Chern character maps and then the resulting charge quantization laws in higher n -form gauge field theories appearing in string theory and the classification of topological quantum materials. Although crucial for understanding famously elusive effects in strongly interacting physics, the relevant higher non-abelian cohomology theory (higher gerbes) has had an esoteric reputation and remains underdeveloped. Devoted to this end, this book's theme is that various generalized cohomology theories are best viewed through their classifying spaces or moduli stacks, not necessarily infinite loop spaces. From this perspective, the character map is really an incarnation of the fundamental theorem of rational homotopy theory, thereby not only uniformly subsuming the classical Chern character and a multitude of scattered variants that have been proposed but now seamlessly

applicable in the hitherto elusive generality of twisted differential and non abelian cohomology In laying out this result with plenty of examples this book provides a modernized introduction and review of fundamental classical topics 1 abstract homotopy theory via model categories 2 generalized cohomology in its homotopical incarnation 3 rational homotopy theory seen via homotopy Lie theory whose fundamental theorem we recast as a twisted non abelian de Rham theorem which naturally induces the twisted non abelian character map

Directions in Number Theory Ellen E. Eischen, Ling Long, Rachel Pries, Katherine E. Stange, 2016-09-26 Exploring the interplay between deep theory and intricate computation this volume is a compilation of research and survey papers in number theory written by members of the Women In Numbers WIN network principally by the collaborative research groups formed at Women In Numbers 3 a conference at the Banff International Research Station in Banff Alberta on April 21 25 2014 The papers span a wide range of research areas arithmetic geometry analytic number theory algebraic number theory and applications to coding and cryptography The WIN conference series began in 2008 with the aim of strengthening the research careers of female number theorists The series introduced a novel research mentorship model women at all career stages from graduate students to senior members of the community joined forces to work in focused research groups on cutting edge projects designed and led by experienced researchers The goals for Women In Numbers 3 were to establish ambitious new collaborations between women in number theory to train junior participants about topics of current importance and to continue to build a vibrant community of women in number theory Forty two women attended the WIN3 workshop including 15 senior and mid level faculty 15 junior faculty and postdocs and 12 graduate students

Higher Structures in Topology, Geometry, and Physics Ralph M. Kaufmann, Martin Markl, Alexander A. Voronov, 2024-07-03 This volume contains the proceedings of the AMS Special Session on Higher Structures in Topology Geometry and Physics held virtually on March 26 27 2022 The articles give a snapshot survey of the current topics surrounding the mathematical formulation of field theories There is an intricate interplay between geometry topology and algebra which captures these theories The hallmark are higher structures which one can consider as the secondary algebraic or geometric background on which the theories are formulated The higher structures considered in the volume are generalizations of operads models for conformal field theories string topology open closed field theories BF BV formalism actions on Hochschild complexes and related complexes and their geometric and topological aspects

Foundations of Stable Homotopy Theory David Barnes, Constanze Roitzheim, 2020-03-26 The beginning graduate student in homotopy theory is confronted with a vast literature on spectra that is scattered across books articles and decades There is much folklore but very few easy entry points This comprehensive introduction to stable homotopy theory changes that It presents the foundations of the subject together in one place for the first time from the motivating phenomena to the modern theory at a level suitable for those with only a first course in algebraic topology Starting from stable homotopy groups and co homology theories the authors study the most important categories of spectra and the stable

homotopy category before moving on to computational aspects and more advanced topics such as monoidal structures localisations and chromatic homotopy theory The appendix containing essential facts on model categories the numerous examples and the suggestions for further reading make this a friendly introduction to an often daunting subject

Mathematical Foundations of Quantum Field Theory and Perturbative String Theory Hisham Sati, Urs Schreiber, 2011-12-07 Conceptual progress in fundamental theoretical physics is linked with the search for the suitable mathematical structures that model the physical systems Quantum field theory QFT has proven to be a rich source of ideas for mathematics for a long time However fundamental questions such as What is a QFT did not have satisfactory mathematical answers especially on spaces with arbitrary topology fundamental for the formulation of perturbative string theory This book contains a collection of papers highlighting the mathematical foundations of QFT and its relevance to perturbative string theory as well as the deep techniques that have been emerging in the last few years The papers are organized under three main chapters Foundations for Quantum Field Theory Quantization of Field Theories and Two Dimensional Quantum Field Theories An introduction written by the editors provides an overview of the main underlying themes that bind together the papers in the volume [Homotopy Theory: Tools and Applications](#) Daniel G. Davis, 2019-05-30 This volume contains the proceedings of the conference Homotopy Theory Tools and Applications in honor of Paul Goerss's 60th birthday held from July 17-21 2017 at the University of Illinois at Urbana-Champaign Urbana IL The articles cover a variety of topics spanning the current research frontier of homotopy theory This includes articles concerning both computations and the formal theory of chromatic homotopy different aspects of equivariant homotopy theory and K theory as well as articles concerned with structured ring spectra cyclotomic spectra associated to perfectoid fields and the theory of higher homotopy operations [The Adams Spectral Sequence for Topological Modular Forms](#) Robert R. Bruner, John Rognes, 2021 [The Adams Spectral Sequence for Topological Modular Forms](#) Robert R. Bruner, John Rognes, 2021-12-23 The connective topological modular forms spectrum tmf is in a sense initial among elliptic spectra and as such is an important link between the homotopy groups of spheres and modular forms A primary goal of this volume is to give a complete account with full proofs of the homotopy of tmf and several tmf module spectra by means of the classical Adams spectral sequence thus verifying correcting and extending existing approaches In the process folklore results are made precise and generalized Anderson and Brown Comenetz duality and the corresponding dualities in homotopy groups are carefully proved The volume also includes an account of the homotopy groups of spheres through degree 44 with complete proofs except that the Adams conjecture is used without proof Also presented are modern stable proofs of classical results which are hard to extract from the literature Tools used in this book include a multiplicative spectral sequence generalizing a construction of Davis and Mahowald and computer software which computes the cohomology of modules over the Steenrod algebra and products therein Techniques from commutative algebra are used to make the calculation precise and finite The

H infinity ring structure of the sphere and of tmf are used to determine many differentials and relations **Groupes de Galois Arithmétiques Et Différentiels** Daniel Bertrand, Pierre Dèbes, 2006 On March 8 13 2004 a meeting was organized at the Luminy CIRM France on arithmetic and differential Galois groups reflecting the growing interactions between the two theories The present volume contains the proceedings of this conference It covers the following themes moduli spaces of curves of coverings of connexions including the recent developments on modular towers the arithmetic of coverings and of differential equations fields of definition descent theory fundamental groups the inverse problems and methods of deformation and the algorithmic aspects of the theories with explicit computations or realizations of Galois groups

Transactions (Kongelige Norske videnskabers selskab) ,2003 *Scientific and Technical Books in Print* ,1972

Mathematical Reviews ,2004 **Journal de théorie des nombres de Bordeaux** ,2002 *Pure and Applied Mathematics Quarterly* ,2006 Superstring Theory Kefeng Liu, Shing-Tung Yau, Chongyuan Zhu, 2008 Presents lectures from the important String Theory International Conference held in 2002 in Hangzhou China This work includes talks given by several mathematicians of particular prominence in the field among them Stephen Hawking and Edward Witten **Russian Mathematical Surveys** ,1992 *World Translations Index* ,1996 *Annales Scientifiques de L'École Normale Supérieure* ,2006

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