

University  
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Volume 21

Lectures on Tensor  
Categories and  
Modular Functors

Bojko Bakalov  
Alexander Kirillov, Jr.



American Mathematical Society

# Lectures On Tensor Categories And Modular Functors

**Peter Robert Kotiuga**



## **Lectures On Tensor Categories And Modular Functors:**

**Lectures on Tensor Categories and Modular Functors** Bojko Bakalov, Alexander A. Kirillov, 2001 This book gives an exposition of the relations among the following three topics monoidal tensor categories such as a category of representations of a quantum group 3 dimensional topological quantum field theory and 2 dimensional modular functors which naturally arise in 2 dimensional conformal field theory The following examples are discussed in detail the category of representations of a quantum group at a root of unity and the Wess Zumino Witten modular functor The idea that these topics are related first appeared in the physics literature in the study of quantum field theory Pioneering works of Witten and Moore Seiberg triggered an avalanche of papers both physical and mathematical exploring various aspects of these relations Upon preparing to lecture on the topic at MIT however the authors discovered that the existing literature was difficult and that there were gaps to fill The text is wholly expository and finely succinct It gathers results fills existing gaps and simplifies some proofs The book makes an important addition to the existing literature on the topic It would be suitable as a course text at the advanced graduate level *Tensor Categories* Pavel Etingof, Shlomo Gelaki, Dmitri Nikshych, Victor Ostrik, 2016-08-05

Is there a vector space whose dimension is the golden ratio Of course not the golden ratio is not an integer But this can happen for generalizations of vector spaces objects of a tensor category The theory of tensor categories is a relatively new field of mathematics that generalizes the theory of group representations It has deep connections with many other fields including representation theory Hopf algebras operator algebras low dimensional topology in particular knot theory homotopy theory quantum mechanics and field theory quantum computation theory of motives etc This book gives a systematic introduction to this theory and a review of its applications While giving a detailed overview of general tensor categories it focuses especially on the theory of finite tensor categories and fusion categories in particular braided and modular ones and discusses the main results about them with proofs In particular it shows how the main properties of finite dimensional Hopf algebras may be derived from the theory of tensor categories Many important results are presented as a sequence of exercises which makes the book valuable for students and suitable for graduate courses Many applications connections to other areas additional results and references are discussed at the end of each chapter **Categories for**

**Quantum Theory** Chris Heunen, Jamie Vicary, 2019 *Categories for Quantum Theory* An Introduction lays foundations for an approach to quantum theory that uses category theory a branch of pure mathematics Prior knowledge of quantum information theory or category theory helps but is not assumed and basic linear algebra and group theory suffices

**Categories in Algebra, Geometry and Mathematical Physics** Alexei Davydov, 2007 Category theory has become the universal language of modern mathematics This book is a collection of articles applying methods of category theory to the areas of algebra geometry and mathematical physics Among others this book contains articles on higher categories and their applications and on homotopy theoretic methods The reader can learn about the exciting new interactions of category theory

with very traditional mathematical disciplines      Vertex Operator Algebras in Mathematics and Physics Stephen Berman, Vertex operator algebras are a class of algebras underlying a number of recent constructions results and themes in mathematics These algebras can be understood as string theoretic analogues of Lie algebras and of commutative associative algebras They play fundamental roles in some of the most active research areas in mathematics and physics Much recent progress in both physics and mathematics has benefited from cross pollination between the physical and mathematical points of view This book presents the proceedings from the workshop Vertex Operator Algebras in Mathematics and Physics held at The Fields Institute It consists of papers based on many of the talks given at the conference by leading experts in the algebraic geometric and physical aspects of vertex operator algebra theory The book is suitable for graduate students and research mathematicians interested in the major themes and important developments on the frontier of research in vertex operator algebra theory and its applications in mathematics and physics      Topology and Geometry of Manifolds Gordana Matic, Clint McCrory, 2003 Since 1961 the Georgia Topology Conference has been held every eight years to discuss the newest developments in topology The goals of the conference are to disseminate new and important results and to encourage interaction among topologists who are in different stages of their careers Invited speakers are encouraged to aim their talks to a broad audience and several talks are organized to introduce graduate students to topics of current interest Each conference results in high quality surveys new research and lists of unsolved problems some of which are then formally published Continuing in this 40 year tradition the AMS presents this volume of articles and problem lists from the 2001 conference Topics covered include symplectic and contact topology foliations and laminations and invariants of manifolds and knots Articles of particular interest include John Etnyre's Introductory Lectures on Contact Geometry which is a beautiful expository paper that explains the background and setting for many of the other papers This is an excellent introduction to the subject for graduate students in neighboring fields Etnyre and Lenhard Ng's Problems in Low Dimensional Contact Topology and Danny Calegari's extensive paper Problems in Foliations and Laminations of 3 Manifolds are carefully selected problems in keeping with the tradition of the conference They were compiled by Etnyre and Ng and by Calegari with the input of many who were present This book provides material of current interest to graduate students and research mathematicians interested in the geometry and topology of manifolds      **Three Lectures on Commutative Algebra** Holger Brenner, Jürgen Herzog, Orlando E. Villamayor, 2008 These lectures provides detailed introductions to some of the latest advances in three significant areas of rapid development in commutative algebra and its applications tight closure and vector bundles combinatorics and commutative algebra constructive desingularization      Topological Phases of Matter and Quantum Computation Paul Bruillard, Carlos Ortiz Marrero, Julia Plavnik, 2020-03-31 This volume contains the proceedings of the AMS Special Session on Topological Phases of Matter and Quantum Computation held from September 24 25 2016 at Bowdoin College Brunswick Maine Topological quantum computing has exploded in popularity in recent years Sitting at the

triple point between mathematics physics and computer science it has the potential to revolutionize sub disciplines in these fields The academic importance of this field has been recognized in physics through the 2016 Nobel Prize In mathematics some of the 1990 Fields Medals were awarded for developments in topics that nowadays are fundamental tools for the study of topological quantum computation Moreover the practical importance of this discipline has been underscored by recent industry investments The relative youth of this field combined with a high degree of interest in it makes now an excellent time to get involved Furthermore the cross disciplinary nature of topological quantum computing provides an unprecedented number of opportunities for cross pollination of mathematics physics and computer science This can be seen in the variety of works contained in this volume With articles coming from mathematics physics and computer science this volume aims to provide a taste of different sub disciplines for novices and a wealth of new perspectives for veteran researchers Regardless of your point of entry into topological quantum computing or your experience level this volume has something for you

*Lectures on Harmonic Analysis* Thomas H. Wolff, 2003-09-17 This book demonstrates how harmonic analysis can provide penetrating insights into deep aspects of modern analysis It is both an introduction to the subject as a whole and an overview of those branches of harmonic analysis that are relevant to the Keakey conjecture The usual background material is covered in the first few chapters the Fourier transform convolution the inversion theorem the uncertainty principle and the method of stationary phase However the choice of topics is highly selective with emphasis on those frequently used in research inspired by the problems discussed in the later chapters These include questions related to the restriction conjecture and the Keakey conjecture distance sets and Fourier transforms of singular measures These problems are diverse but often interconnected they all combine sophisticated Fourier analysis with intriguing links to other areas of mathematics and they continue to stimulate first rate work The book focuses on laying out a solid foundation for further reading and research Technicalities are kept to a minimum and simpler but more basic methods are often favored over the most recent methods The clear style of the exposition and the quick progression from fundamentals to advanced topics ensures that both graduate students and research mathematicians will benefit from the book

**Deep Beauty** Hans Halvorson, 2011-04-18 No scientific theory has caused more puzzlement and confusion than quantum theory Physics is supposed to help us to understand the world but quantum theory makes it seem a very strange place This book is about how mathematical innovation can help us gain deeper insight into the structure of the physical world Chapters by top researchers in the mathematical foundations of physics explore new ideas especially novel mathematical concepts at the cutting edge of future physics These creative developments in mathematics may catalyze the advances that enable us to understand our current physical theories especially quantum theory The authors bring diverse perspectives unified only by the attempt to introduce fresh concepts that will open up new vistas in our understanding of future physics

**Geometric And Topological Methods For Quantum Field Theory - Proceedings Of The Summer School** Alexander Cardona, Hernan Ocampo, Sylvie Paycha, 2003-03-21 This volume offers an

introduction to recent developments in several active topics of research at the interface between geometry topology and quantum field theory These include Hopf algebras underlying renormalization schemes in quantum field theory noncommutative geometry with applications to index theory on one hand and the study of aperiodic solids on the other geometry and topology of low dimensional manifolds with applications to topological field theory Chern Simons supergravity and the anti de Sitter conformal field theory correspondence It comprises seven lectures organized around three main topics noncommutative geometry topological field theory followed by supergravity and string theory complemented by some short communications by young participants of the school

Representations of Algebraic Groups, Quantum Groups, and Lie Algebras Georgia Benkart, 2006 Covers various aspects of the representation theory of Lie algebras finite groups of Lie types Hecke algebras and Lie super algebras This book outlines connections among irreducible representations of certain blocks of reduced enveloping algebras of semi simple Lie algebras in positive characteristic

*Shape, Smoothness, and Invariant Stratification of an Attracting Set for Delayed Monotone Positive Feedback* Tibor Krisztin, Hans-Otto Walther, Jianhong Wu, This volume contains recent results about the global dynamics defined by a class of delay differential equations which model basic feedback mechanisms and arise in a variety of applications such as neural networks The authors describe in detail the geometric structure of a fundamental invariant set which in special cases is the global attractor and the asymptotic behavior of solution curves on it The approach makes use of advanced tools which in recent years have been developed for the investigation of infinite dimensional dynamical systems local invariant manifolds and inclination lemmas for noninvertible maps Floquet theory for delay differential equations a priori estimates controlling the growth and decay of solutions with prescribed oscillation frequency a discrete Lyapunov functional counting zeros methods to represent invariant sets as graphs and Poincare Bendixson techniques for classes of delay differential systems Several appendices provide the general results needed in the case study so the presentation is self contained Some of the general results are not available elsewhere specifically on smooth infinite dimensional centre stable manifolds

**A Celebration of the Mathematical Legacy of Raoul Bott** Peter Robert Kotiuga, 2010-01-01

*Noncommutative Geometry and Representation Theory in Mathematical Physics* Jürgen Fuchs, 2005 Mathematics provides a language in which to formulate the laws that govern nature It is a language proven to be both powerful and effective In the quest for a deeper understanding of the fundamental laws of physics one is led to theories that are increasingly difficult to put to the test In recent years many novel questions have emerged in mathematical physics particularly in quantum field theory Indeed several areas of mathematics have lately become increasingly influential in physics and in turn have become influenced by developments in physics Over the last two decades interactions between mathematicians and physicists have increased enormously and have resulted in a fruitful cross fertilization of the two communities This volume contains the plenary talks from the international symposium on Noncommutative Geometry and Representation Theory in Mathematical Physics held at Karlstad University Sweden as a

satellite conference to the Fourth European Congress of Mathematics The scope of the volume is large and its content is relevant to various scientific communities interested in noncommutative geometry and representation theory It offers a comprehensive view of the state of affairs for these two branches of mathematical physics The book is suitable for graduate students and researchers interested in mathematical physics

**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

**Handbook of Teichmüller Theory** Athanase Papadopoulos, 2007 The Teichmüller space of a surface was introduced by O Teichmüller in the 1930s It is a basic tool in the study of Riemann's moduli spaces and the mapping class groups These objects are fundamental in several fields of mathematics including algebraic geometry number theory topology geometry and dynamics The original setting of Teichmüller theory is complex analysis The work of Thurston in the 1970s brought techniques of hyperbolic geometry to the study of Teichmüller space and its asymptotic geometry Teichmüller spaces are also studied from the point of view of the representation theory of the fundamental group of the surface in a Lie group  $G$  most notably  $G = \mathrm{PSL}(2, \mathbb{R})$  and  $G = \mathrm{PSL}(2, \mathbb{C})$  In the 1980s there evolved an essentially combinatorial treatment of the Teichmüller and moduli spaces involving techniques and ideas from high energy physics namely from string theory The current research interests include the quantization of Teichmüller space the Weil-Petersson symplectic and Poisson geometry of this space as well as gauge theoretic extensions of these structures The quantization theories can lead to new invariants of hyperbolic 3-manifolds The purpose of this handbook is to give a panorama of some of the most important aspects of Teichmüller theory The handbook should be useful to specialists in the field to graduate students and more generally to mathematicians who want to learn about the subject All the chapters are self-contained and have a pedagogical character They are written by leading experts in the subject

**Proceedings Of The International Congress Of Mathematicians 2018 (Icm 2018) (In 4 Volumes)** Boyan Sirakov, Paulo Ney De Souza, Marcelo Viana, 2019-02-27 The Proceedings of the ICM publishes the talks by invited speakers at the conference organized by the International

Mathematical Union every 4 years It covers several areas of Mathematics and it includes the Fields Medal and Nevanlinna Gauss and Leelavati Prizes and the Chern Medal laudations

**String-Net Construction of RCFT Correlators** Jürgen Fuchs, Christoph Schweigert, Yang Yang, 2023-01-01 This book studies using string net models to accomplish a direct purely two dimensional approach to correlators of two dimensional rational conformal field theories The authors obtain concise geometric expressions for the objects describing bulk and boundary fields in terms of idempotents in the cylinder category of the underlying modular fusion category comprising more general classes of fields than is standard in the literature Combining these idempotents with Frobenius graphs on the world sheet yields string nets that form a consistent system of correlators i e a system of invariants under appropriate mapping class groups that are compatible with factorization The authors extract operator products of field objects from specific correlators the resulting operator products are natural algebraic expressions that make sense beyond semisimplicity They also derive an Eckmann Hilton relation internal to a braided category thereby demonstrating the utility of string nets for understanding algebra in braided tensor categories Finally they introduce the notion of a universal correlator This systematizes the treatment of situations in which different world sheets have the same correlator and allows for the definition of a more comprehensive mapping class group

**Lie Algebras, Vertex Operator Algebras and Their Applications** Yi-Zhi Huang, Kailash C. Misra, 2007 The articles in this book are based on talks given at the international conference Lie algebras vertex operator algebras and their applications The focus of the papers is mainly on Lie algebras quantum groups vertex operator algebras and their applications to number theory combinatorics and conformal field theory



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