



Robert Oeckl

DISCRETE GAUGE THEORY

FROM LATTICES TO TQFT

Imperial College Press

Discrete Gauge Theory From Lattices To Tqft

**Tanmoy Bhattacharya, Rajan
Gupta, Apoorva Patel**



Discrete Gauge Theory From Lattices To Tqft:

Discrete Gauge Theory Robert Oeckl, 2005 This book provides an introduction to topological quantum field theory as well as discrete gauge theory with quantum groups In contrast to much of the existing literature the present approach is at the same time intuitive and mathematically rigorous making extensive use of suitable diagrammatic methods It provides a highly unified description of lattice gauge theory topological quantum field theory and models of quantum super gravity The reader is thus in a unique position to understand the relations between these subjects as well as the underlying groundwork

Strings to Strings N. D. Hari Dass, 2023-11-02 This book presents the essentials culminating in the effective string theory of flux tubes in meticulous technical and conceptual detail The book is divided into four parts Part One provides historical background while Part Two consisting of 14 chapters covers the passage from Heisenberg's S matrix theory to String Theory This includes non perturbative LSZ formalism dispersion relations Regge poles duality and dual resonance models Part Three offers a comprehensive analysis of QCD focusing on important concepts like asymptotic freedom and quark confinement The section also delves into lattice gauge theories and effective descriptions of superconductivity and strong interactions Part Four the final two chapters describe the lattice gauge theory determinations of Yang Mills flux tubes in three and four dimensions and effective string theories including their systematic constructions These chapters provide detailed technical information to help readers especially students develop their expertise in these ideas This book is ideal for graduate students postdocs and senior researchers looking to deepen their understanding of effective string theory and related concepts

Topological Quantum Steven H. Simon, 2023 This book discusses topological quantum drawing in topics ranging from quantum gravity to topology to experimental condensed matter physics

Differential and Difference Equations with Applications Sandra Pinelas, Michel Chipot, Zuzana Dosla, 2013-09-21 The volume contains carefully selected papers presented at the International Conference on Differential Difference Equations and Applications held in Ponta Delgada Azores from July 4-8 2011 in honor of Professor Ravi P Agarwal The objective of the gathering was to bring together researchers in the fields of differential difference equations and to promote the exchange of ideas and research The papers cover all areas of differential and difference equations with a special emphasis on applications

Loop Quantum Gravity: The First 30 Years Abhay Ashtekar, Jorge Pullin, 2017-03-16 Written by young theoretical physicists who are experts in the field this volume is meant both to provide an introduction to the field and to offer a review of the latest developments not discussed in many other existing books for senior researchers It will also appeal to scientists who do not work directly on LQG but are interested in issues at the interface of general relativity and quantum physics CERN Courier This volume presents a snapshot of the state of the art in loop quantum gravity from the perspective of younger leading researchers It takes the reader from the basics to recent advances thereby bridging an important gap The aim is two fold to provide a contemporary introduction to the entire field for students and post docs and to present an overview of the current status for

more senior researchers The contributions include the latest developments that are not discussed in existing books particularly recent advances in quantum dynamics both in the Hamiltonian and sum over histories approaches and applications to cosmology of the early universe and to the quantum aspects of black holes

Quantum Invariants of Knots and 3-Manifolds Vladimir G. Turaev, 2016-07-11 Due to the strong appeal and wide use of this monograph it is now available in its third revised edition The monograph gives a systematic treatment of 3 dimensional topological quantum field theories TQFTs based on the work of the author with N Reshetikhin and O Viro This subject was inspired by the discovery of the Jones polynomial of knots and the Witten Chern Simons field theory On the algebraic side the study of 3 dimensional TQFTs has been influenced by the theory of braided categories and the theory of quantum groups The book is divided into three parts Part I presents a construction of 3 dimensional TQFTs and 2 dimensional modular functors from so called modular categories This gives a vast class of knot invariants and 3 manifold invariants as well as a class of linear representations of the mapping class groups of surfaces In Part II the technique of 6j symbols is used to define state sum invariants of 3 manifolds Their relation to the TQFTs constructed in Part I is established via the theory of shadows Part III provides constructions of modular categories based on quantum groups and skein modules of tangles in the 3 space This fundamental contribution to topological quantum field theory is accessible to graduate students in mathematics and physics with knowledge of basic algebra and topology It is an indispensable source for everyone who wishes to enter the forefront of this fascinating area at the borderline of mathematics and physics

Contents Invariants of graphs in Euclidean 3 space and of closed 3 manifolds Foundations of topological quantum field theory Three dimensional topological quantum field theory Two dimensional modular functors 6j symbols Simplicial state sums on 3 manifolds Shadows of manifolds and state sums on shadows Constructions of modular categories

2016 MATRIX Annals Jan de Gier, Cheryl E. Praeger, Terence Tao, 2018-04-10 MATRIX is Australia's international residential mathematical research institute It facilitates new collaborations and mathematical advances through intensive residential research programs each lasting 1 4 weeks This book is a scientific record of the five programs held at MATRIX in its first year 2016 Higher Structures in Geometry and Physics Winter of Disconnectedness Approximation and Optimisation Refining C Algebraic Invariants for Dynamics using KK theory Interactions between Topological Recursion Modularity Quantum Invariants and Low dimensional Topology The MATRIX Scientific Committee selected these programs based on their scientific excellence and the participation rate of high profile international participants Each program included ample unstructured time to encourage collaborative research some of the longer programs also included an embedded conference or lecture series The articles are grouped into peer reviewed contributions and other contributions The peer reviewed articles present original results or reviews on selected topics related to the MATRIX program the remaining contributions are predominantly lecture notes based on talks or activities at MATRIX

Computer Algebra in Scientific Computing Vladimir P. Gerdt, Ernst W. Mayr, Evgenii V. Vorozhtsov, 2009-09-30

This book constitutes the refereed proceedings of the 11th International Workshop on Computer Algebra in Scientific Computing CASC 2009 held in Kobe Japan in September 2009 The 28 revised full papers presented together with 2 invited lectures were carefully reviewed and selected from numerous submissions The topics addressed are all basic areas of scientific computing as they benefit from the application of computer algebra methods and software The papers cover computer algebra methods and algorithms application of symbolic and algebraic manipulation and CA methods and results for the numerical integration of the partial differential equations of the mathematical physics

The British National Bibliography Arthur James Wells,2007 **Lattice ...** ,2001 **Lattice 2000** Tanmoy Bhattacharya,Rajan Gupta,Apoorva Patel,2001 **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 laudatios

Physics Briefs ,1992 **Randomness And Realism: Encounters With Randomness In The Scientific Search For Physical Reality** John W Fowler,2021-07-08 Randomness is an active element relevant to all scientific activities The book explores the way in which randomness suffuses the human experience starting with everyday chance events followed by developments into modern probability theory statistical mechanics scientific data analysis quantum mechanics and quantum gravity An accessible introduction to these theories is provided as a basis for going into deeper topics Fowler unveils the influence of randomness in the two pillars of science measurement and theory Some emphasis is placed on the need and methods for optimal characterization of uncertainty An example of the cost of neglecting this is the St Petersburg Paradox a theoretical game of chance with an infinite expected payoff value The role of randomness in quantum mechanics reveals another particularly interesting finding that in order for the physical universe to function as it does and permit conscious beings within it to enjoy sanity irreducible randomness is necessary at the quantum level The book employs a certain level of mathematics to describe physical reality in a more precise way that avoids the tendency of nonmathematical descriptions to be occasionally misleading Thus it is most readily digested by young students who have taken at least a class in introductory calculus or professional scientists and engineers curious about the book s topics as a result of hearing about them in popular media Readers not inclined to savor equations should be able to skip certain technical sections without losing the general flow of ideas Still it is hoped that even readers who usually avoid equations will give those within these pages a chance as they may be surprised at how potentially foreboding concepts fall into line when one makes a legitimate attempt to follow a succession of mathematical implications **Nuclear Physics** ,2001 *Mathematical Reviews* ,2002 **Lattice Gauge Theories: An Introduction** Heinz J Rothe,1992-01-29 This book introduces a large number of topics in lattice gauge theories including analytical as well as numerical methods It provides young physicists with the theoretical background and

basic computational tools in order to be able to follow the extensive literature on the subject and to carry out research on their own Whenever possible the basic ideas and technical inputs are demonstrated in simple examples so as to avoid diverting the readers attention from the main line of thought Sufficient technical details are however given so that he can fill in the remaining details with the help of the cited literature without too much effort This volume is designed for graduate students in theoretical elementary particle physics or statistical mechanics with a basic knowledge in Quantum Field Theory

Encyclopedia of Mathematical Physics Jean-Pierre Francoise, Gregory L. Naber, Sheung Tsun Tsou, 2006 The Encyclopedia of Mathematical Physics provides a complete resource for researchers students and lecturers with an interest in mathematical physics It enables readers to access basic information on topics peripheral to their own areas to provide a repository of the core information in the area that can be used to refresh the researcher s own memory banks and aid teachers in directing students to entries relevant to their course work The Encyclopedia does contain information that has been distilled organised and presented as a complete reference tool to the user and a landmark to the body of knowledge that has accumulated in this domain It also is a stimulus for new researchers working in mathematical physics or in areas using the methods originating from work in mathematical physics by providing them with focused high quality background information Editorial Board Jean Pierre Fran oise Universit Pierre et Marie Curie Paris France Gregory L Naber Drexel University Philadelphia PA USA Tsou Sheung Tsun University of Oxford UK Also available online via ScienceDirect 2006 featuring extensive browsing searching and internal cross referencing between articles in the work plus dynamic linking to journal articles and abstract databases making navigation flexible and easy

Lattice Gauge Theories And Monte Carlo Simulations Claudio Rebbi, 1983-07-01 This volume is the most up to date review on Lattice Gauge Theories and Monte Carlo Simulations It consists of two parts Part one is an introductory lecture on the lattice gauge theories in general Monte Carlo techniques and on the results to date Part two consists of important original papers in this field These selected reprints involve the following Lattice Gauge Theories General Formalism and Expansion Techniques Monte Carlo Simulations Phase Structures Observables in Pure Gauge Theories Systems with Bosonic Matter Fields Simulation of Systems with Fermions

Government Reports Announcements & Index ,1989

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Table of Contents Discrete Gauge Theory From Lattices To Tqft

1. Understanding the eBook Discrete Gauge Theory From Lattices To Tqft
 - The Rise of Digital Reading Discrete Gauge Theory From Lattices To Tqft
 - Advantages of eBooks Over Traditional Books
2. Identifying Discrete Gauge Theory From Lattices To Tqft
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in a Discrete Gauge Theory From Lattices To Tqft
 - User-Friendly Interface
4. Exploring eBook Recommendations from Discrete Gauge Theory From Lattices To Tqft
 - Personalized Recommendations
 - Discrete Gauge Theory From Lattices To Tqft User Reviews and Ratings
 - Discrete Gauge Theory From Lattices To Tqft and Bestseller Lists
5. Accessing Discrete Gauge Theory From Lattices To Tqft Free and Paid eBooks
 - Discrete Gauge Theory From Lattices To Tqft Public Domain eBooks
 - Discrete Gauge Theory From Lattices To Tqft eBook Subscription Services
 - Discrete Gauge Theory From Lattices To Tqft Budget-Friendly Options

6. Navigating Discrete Gauge Theory From Lattices To Tqft eBook Formats
 - ePub, PDF, MOBI, and More
 - Discrete Gauge Theory From Lattices To Tqft Compatibility with Devices
 - Discrete Gauge Theory From Lattices To Tqft Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Discrete Gauge Theory From Lattices To Tqft
 - Highlighting and Note-Taking Discrete Gauge Theory From Lattices To Tqft
 - Interactive Elements Discrete Gauge Theory From Lattices To Tqft
8. Staying Engaged with Discrete Gauge Theory From Lattices To Tqft
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Discrete Gauge Theory From Lattices To Tqft
9. Balancing eBooks and Physical Books Discrete Gauge Theory From Lattices To Tqft
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Discrete Gauge Theory From Lattices To Tqft
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Discrete Gauge Theory From Lattices To Tqft
 - Setting Reading Goals Discrete Gauge Theory From Lattices To Tqft
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Discrete Gauge Theory From Lattices To Tqft
 - Fact-Checking eBook Content of Discrete Gauge Theory From Lattices To Tqft
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements

- Interactive and Gamified eBooks

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