

Advanced Series in Mathematical Physics – Volume 9

Braid Group, Knot Theory and Statistical Mechanics

Editors

C N Yang
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Braid Group Knot Theory And Statistical Mechanics

Akio Kawauchi



Braid Group Knot Theory And Statistical Mechanics:

Braid Group, Knot Theory, and Statistical Mechanics II Chen Ning Yang, Mo-Lin Ge, 1994 The present volume is an updated version of the book edited by C N Yang and M L Ge on the topics of braid groups and knot theory which are related to statistical mechanics This book is based on the 1989 volume but has new material included and new contributors Braid Group, Knot Theory And Statistical Mechanics Mo-lin Ge, Chen Ning Yang, 1991-06-05 Contents Notes on Subfactors and Statistical Mechanics V F R Jones Polynomial Invariants in Knot Theory L H Kauffman Algebras of Loops on Surfaces Algebras of Knots and Quantization V G Turaev Quantum Groups L Faddeev et al Introduction to the Yang Baxter Equation M Jimbo Integrable Systems Related to Braid Groups and Yang Baxter Equation T Kohno The Yang Baxter Relation A New Tool for Knot Theory Y Akutsu et al Akutsu Wadati Link Polynomials from Feynman Kauffman Diagrams M L Ge et al Quantum Field Theory and the Jones Polynomial E Witten Readership Mathematical physicists Braid group, knot theory and statistical mechanics C. N. Yang, 1989 Braid Group, Knot Theory And Statistical Mechanics Ii Chen Ning Yang, Mo-lin Ge, 1994-02-24 The present volume is an updated version of the book edited by C N Yang and M L Ge on the topics of braid groups and knot theory which are related to statistical mechanics This book is based on the 1989 volume but has new material included and new contributors

New Developments in the Theory of Knots Toshitake Kohno, 1990 This reprint volume focuses on recent developments in knot theory arising from mathematical physics especially solvable lattice models Yang Baxter equation quantum group and two dimensional conformal field theory This volume is helpful to topologists and mathematical physicists because existing articles are scattered in journals of many different domains including Mathematics and Physics This volume will give an excellent perspective on these new developments in Topology inspired by mathematical physics

Exactly Solved Models: A Journey In Statistical Mechanics - Selected Papers With Commentaries (1963-2008) Fa Yueh Wu, 2009-03-03 This unique volume provides a comprehensive overview of exactly solved models in statistical mechanics by looking at the scientific achievements of F Y Wu in this and related fields which span four decades of his career The book is organized into topics ranging from lattice models in condensed matter physics to graph theory in mathematics and includes the author's pioneering contributions Through insightful commentaries the author presents an overview of each of the topics and an insider's look at how crucial developments emerged With the inclusion of important pedagogical review articles by the author Exactly Solved Models is an indispensable learning tool for graduate students and an essential reference and source book for researchers in physics and mathematics as well as historians of science

Beginning Topology Sue E. Goodman, 2021-08-04 Beginning Topology is designed to give undergraduate students a broad notion of the scope of topology in areas of point set geometric combinatorial differential and algebraic topology including an introduction to knot theory A primary goal is to expose students to some recent research and to get them actively involved in learning Exercises and open ended projects are placed throughout the text making it adaptable to

seminar style classes The book starts with a chapter introducing the basic concepts of point set topology with examples chosen to captivate students imaginations while illustrating the need for rigor Most of the material in this and the next two chapters is essential for the remainder of the book One can then choose from chapters on map coloring vector fields on surfaces the fundamental group and knot theory A solid foundation in calculus is necessary with some differential equations and basic group theory helpful in a couple of chapters Topics are chosen to appeal to a wide variety of students primarily upper level math majors but also a few freshmen and sophomores as well as graduate students from physics economics and computer science All students will benefit from seeing the interaction of topology with other fields of mathematics and science some will be motivated to continue with a more in depth rigorous study of topology

Gauge Fields, Knots And Gravity John C Baez, Javier P Muniain, 1994-10-24 This is an introduction to the basic tools of mathematics needed to understand the relation between knot theory and quantum gravity The book begins with a rapid course on manifolds and differential forms emphasizing how these provide a proper language for formulating Maxwell s equations on arbitrary spacetimes The authors then introduce vector bundles connections and curvature in order to generalize Maxwell theory to the Yang Mills equations The relation of gauge theory to the newly discovered knot invariants such as the Jones polynomial is sketched Riemannian geometry is then introduced in order to describe Einstein s equations of general relativity and show how an attempt to quantize gravity leads to interesting applications of knot theory

Knots And Physics (Fourth Edition) Louis H Kauffman, 2012-11-09 This invaluable book is an introduction to knot and link invariants as generalized amplitudes for a quasi physical process The demands of knot theory coupled with a quantum statistical framework create a context that naturally and powerfully includes an extraordinary range of interrelated topics in topology and mathematical physics The author takes a primarily combinatorial stance toward knot theory and its relations with these subjects This stance has the advantage of providing direct access to the algebra and to the combinatorial topology as well as physical ideas The book is divided into two parts Part I is a systematic course on knots and physics starting from the ground up and Part II is a set of lectures on various topics related to Part I Part II includes topics such as frictional properties of knots relations with combinatorics and knots in dynamical systems In this new edition an article on Virtual Knot Theory and Khovanov Homology has been added

Under the Spell of the Gauge Principle G. 't Hooft, 1994 Few people studying Gauge Field Theory need to be convinced of the importance of the work of t Hooft This volume contains a selection of articles and review topics covering his well known studies on the renormalization of non Abelian gauge theorems topological phenomena in gauge field theory and thoughts on the role of black holes in quantum gravity The chapters are tied together by thoughtful commentaries which provide a background and the illumination of hindsight together they form a clear and coherent picture of the physical and theoretical importance of gauge theories and the gauge principle This book is ideal for students and researchers Gerard t Hooft is Professor of Theoretical Physics at the University of Utrecht The Netherlands He has taught at Harvard SLAC and

Caltech prior to his present position Other distinguished honors include being awarded the Dannie Heineman Prize the Honorary Doctorate of Science from the University of Chicago Wolf Prize of the State of Israel Pius XI Medal Vatican and the Lorentz Medal KNAW Amsterdam

Knots And Physics (Second Edition) Louis H Kauffman, 1994-01-15 In this second edition the following recent papers have been added Gauss Codes Quantum Groups and Ribbon Hopf Algebras Spin Networks Topology and Discrete Physics Link Polynomials and a Graphical Calculus and Knots Tangles and Electrical Networks An appendix with a discussion on invariants of embedded graphs and Vassiliev invariants has also been included This book is an introduction to knot and link invariants as generalized amplitudes vacuum vacuum amplitudes for a quasi physical process The demands of knot theory coupled with a quantum statistical framework create a context that naturally and powerfully includes an extraordinary range of interrelated topics in topology and mathematical physics The author takes a primarily combinatorial stance toward knot theory and its relations with these subjects This has the advantage of providing very direct access to the algebra and to the combinatorial topology as well as the physical ideas This book is divided into 2 parts Part I of the book is a systematic course in knots and physics starting from the ground up Part II is a set of lectures on various topics related to and sometimes based on Part I Part II also explores some side topics such as frictional properties of knots relations with combinatorics and knots in dynamical systems

Knots and Physics Louis H. Kauffman, 2001 This invaluable book is an introduction to knot and link invariants as generalised amplitudes for a quasi physical process The demands of knot theory coupled with a quantum statistical framework create a context that naturally and powerfully includes a extraordinary range of interrelated topics in topology and mathematical physics The author takes a primarily combinatorial stance toward knot theory and its relations with these subjects This stance has the advantage of providing direct access to the algebra and to the combinatorial topology as well as physical ideas The book is divided into two parts Part I is a systematic course on knots and physics starting from the ground up and Part II is a set of lectures on various topics related to Part I Part II includes topics such as frictional properties of knots relations with combinatorics and knots in dynamical systems In this third edition a paper by the author entitled Functional Integration and Vassiliev invariants has been added This paper shows how the Kontsevich integral approach to the Vassiliev invariants is directly related to the perturbative expansion of Witten's functional integral While the book supplies the background this paper can be read independently as an introduction to quantum field theory and knot invariants and their relation to quantum gravity As in the second edition there is a selection of papers by the author at the end of the book Numerous clarifying remarks have been added to the text

Geometries Of Nature, Living Systems And Human Cognition: New Interactions Of Mathematics With Natural Sciences And Humanities Luciano Boi, 2005-11-02 The collection of papers forming this volume is intended to provide a deeper study of some mathematical and physical subjects which are at the core of recent developments in the natural and living sciences The book explores some far reaching interfaces where mathematics theoretical physics and natural sciences

seem to interact profoundly The main goal is to show that an accomplished movement of geometrisation has enabled the discovery of a great variety of amazing structures and behaviors in physical reality and in living matter The diverse group of expert mathematicians physicists and natural scientists present numerous new results and original ideas methods and techniques Both academic and interdisciplinary the book investigates a number of important connections between mathematics theoretical physics and natural sciences including biology

Functional Integration Cécile Dewitt-Morette, Antoine Folacci, 2013-11-11 The program of the Institute covered several aspects of functional integration from a robust mathematical foundation to many applications heuristic and rigorous in mathematics physics and chemistry It included analytic and numerical computational techniques One of the goals was to encourage cross fertilization between these various aspects and disciplines The first week was focused on quantum and classical systems with a finite number of degrees of freedom the second week on field theories During the first week the basic course given by P Cartier was a presentation of a recent rigorous approach to functional integration which does not resort to discretization nor to analytic continuation It provides a definition of functional integrals simpler and more powerful than the original ones Could this approach accommodate the works presented by the other lecturers Although much remains to be done before answering Yes there seems to be no major obstacle along the road The other courses taught during the first week presented a solid introduction to functional numerical techniques A Sokal and their applications to functional integrals encountered in chemistry N Makri b integrals based on Poisson processes and their applications to wave propagation S K Foong in particular a wave restorer or wave designer algorithm yielding the initial wave profile when one can only observe its distortion through a dissipative medium c the formulation of a quantum equivalence principle H Kleinert which given the flat space theory yields a well defined quantum theory in spaces with curvature and torsion

A Guide to Quantum Groups Vyjayanthi Chari, Andrew N. Pressley, 1995-07-27 Since they first arose in the 1970s and early 1980s quantum groups have proved to be of great interest to mathematicians and theoretical physicists The theory of quantum groups is now well established as a fascinating chapter of representation theory and has thrown new light on many different topics notably low dimensional topology and conformal field theory The goal of this book is to give a comprehensive view of quantum groups and their applications The authors build on a self contained account of the foundations of the subject and go on to treat the more advanced aspects concisely and with detailed references to the literature Thus this book can serve both as an introduction for the newcomer and as a guide for the more experienced reader All who have an interest in the subject will welcome this unique treatment of quantum groups

Algebraic Theory Of Superselection Sectors, The: Introduction And Recent Results - Proceedings Of The Covegno Internazionale "Algebraic Theory Of Superselection Sectors And Field Theory" Daniel Kastler, 1990-06-30 Contents Lectures on Algebraic Quantum Field Theory J Roberts Introduction to the Algebraic Theory of Superselection Sectors D Kastler M Mebkhout K H Rehren Localisability of Particle States K Fredenhagen Local Observables

and the Structure of Quantum Field Theory S Doplicher Braid Group Statistics and Their Superselection Rules K H Rehren Principles of General Quantum Field Theory Versus New Intuition from Model Studies An Essay on the Work of J A Swieca B Schroer Endomorphisms and Quantum Symmetry of the Conformal Ising Model G Mack V Schomerus Superselection Sectors in Quantum Field Model Kinks in 2d and Charged States in Lattice Q E D J Fr elich P A Marchetti Braid Statistics in 3 Dimensional Local Quantum Theory J Fr elich F Gabbiani Index Theory of Subfactors and Braid Group statistics R Longo Technical Properties of the Quasi local Algebra C D Antoni Localized Automorphisms of the U 1 Current Algebra on the Circle A Simple Example D Buchholz G Mack I Todorov Readership High energy physicists solid state physicists mathematical physicists and mathematicians

A Survey of Knot Theory Akio Kawauchi, 2012-12-06 Knot theory is a rapidly developing field of research with many applications not only for mathematics The present volume written by a well known specialist gives a complete survey of knot theory from its very beginnings to today s most recent research results The topics include Alexander polynomials Jones type polynomials and Vassiliev invariants With its appendix containing many useful tables and an extended list of references with over 3 500 entries it is an indispensable book for everyone concerned with knot theory The book can serve as an introduction to the field for advanced undergraduate and graduate students Also researchers working in outside areas such as theoretical physics or molecular biology will benefit from this thorough study which is complemented by many exercises and examples

Braid and Knot Theory in Dimension Four Seiichi Kamada, 2002 Braid theory and knot theory are related via two famous results due to Alexander and Markov Alexander s theorem states that any knot or link can be put into braid form Markov s theorem gives necessary and sufficient conditions to conclude that two braids represent the same knot or link Thus one can use braid theory to study knot theory and vice versa In this book the author generalizes braid theory to dimension four He develops the theory of surface braids and applies it to study surface links In particular the generalized Alexander and Markov theorems in dimension four are given This book is the first to contain a complete proof of the generalized Markov theorem Surface links are studied via the motion picture method and some important techniques of this method are studied For surface braids various methods to describe them are introduced and developed the motion picture method the chart description the braid monodromy and the braid system These tools are fundamental to understanding and computing invariants of surface braids and surface links Included is a table of knotted surfaces with a computation of Alexander polynomials Braid techniques are extended to represent link homotopy classes The book is geared toward a wide audience from graduate students to specialists It would make a suitable text for a graduate course and a valuable resource for researchers

Physics, Geometry and Topology H.C. Lee, 2012-12-06 The Banff NATO Summer School was held August 14 25 1989 at the Banff Centre Banff Alberta Canada It was a combination of two venues a summer school in the annual series of Summer School in Theoretical Physics sponsored by the Theoretical Physics Division Canadian Association of Physicists and a NATO Advanced Study Institute The Organizing Committee for the present school

was composed of G Kunstatter University of Winnipeg H C Lee Chalk River Laboratories and University of Western Ontario R Kobes University of Winnipeg D I Toms University of Newcastle Upon Tyne and Y S Wu University of Utah Thanks to the group of lecturers see Contents and the timeliness of the courses given the school entitled PHYSICS GEOMETRY AND TOPOLOGY was popular from the very outset The number of applications outstripped the 90 places of accommodation reserved at the Banff Centre soon after the school was announced As the eventual total number of participants was increased to 170 it was still necessary to turn away many deserving applicants In accordance with the spirit of the school the geometrical and topological properties in each of the wide ranging topics covered by the lectures were emphasized A recurring theme in a number of the lectures is the Yang Baxter relation which characterizes a very large class of integrable systems including many state models two dimensional conformal field theory quantum field theory and quantum gravity in 2 dimensions

Quantum Groups Petr P. Kulish, 2007-02-08 The theory of Quantum Groups is a rapidly developing area with numerous applications in mathematics and theoretical physics e g in link and knot invariants in topology q special functions conformal field theory quantum integrable models The aim of the Euler Institute's workshops was to review and compile the progress achieved in the different subfields Near 100 participants came from 14 countries More than 20 contributions written up for this book contain new unpublished material and half of them include a survey of recent results in the field deformation theory graded differential algebras contraction technique knot invariants q special functions

FROM THE CONTENTS V G Drinfeld On Some Unsolved Problems in Quantum Group Theory M Gerstenhaber A Giaquinto S D Schack Quantum Symmetry L I Korogodsky L L Vaksman Quantum G Spaces and Heisenberg Algebra J Stasheff Differential Graded Lie Algebras Quasi Hopf Algebras and Higher Homotopy Algebras A Yu Alekseev L D Faddeev M A Semenov Tian Shansky Hidden Quantum Groups inside Kac Moody Algebras J L Gervais Quantum Group Symmetry of 2D Gravity T Kohno Invariants of 3 Manifolds Based on Conformal Field Theory and Heegaard Splitting O Viro Moves of Triangulations of a PL Manifold

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