Quantum Groups in Two-dimensional Physics

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Quantum Groups In Two Dimensional Physics:

  Quantum groups in two-dimensional physics César Gómez,1995   Quantum Groups in Two-Dimensional Physics Cisar Gómez,Martm Ruiz-Altaba,German Sierra,1996-04-18 A 1996 introduction to integrability and conformal field theory in two dimensions using quantum groups   **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

  Quantum Groups Vladimir K. Dobrev,2017-07-10 With applications in quantum field theory general relativity and elementary particle physics this three volume work studies the invariance of differential operators under Lie algebras quantum groups and superalgebras This second volume covers quantum groups in their two main manifestations quantum algebras and matrix quantum groups The exposition covers both the general aspects of these and a great variety of concrete explicitly presented examples The invariant q difference operators are introduced mainly using representations of quantum algebras on their dual matrix quantum groups as carrier spaces This is the first book that covers the title matter applied to quantum groups Contents Quantum Groups and Quantum Algebras Highest Weight Modules over Quantum Algebras Positive Energy Representations of Noncompact Quantum Algebras Duality for Quantum Groups Invariant q Difference Operators Invariant q Difference Operators Related to GLq n q Maxwell Equations Hierarchies   Factorization and Integrable Systems Israel Gohberg,Nenad Manojlovic,Antonio, F. dos Santos,2012-12-06 In September 2000 a Summer School on Factorization and Integrable Systems was held at the University of Algarve in Portugal The main aim of the school was to review the modern factorization theory and its application to classical and quantum integrable systems The program consisted of a number of short courses given by leading experts in the field The lecture notes of the courses have been specially prepared for publication in this volume The book consists of four contributions I Gohberg M A Kaashoek and I M Spitkovsky present an extensive review of the factorization theory of matrix functions relative to a curve with emphasis on the developments of the last 20 25 years The group theoretical approach to classical integrable systems is reviewed by M A Semenov Tian Shansky P P Kulish surveyed the quantum inverse scattering method using the isotropic Heisenberg spin chain as the main example   **Harmonic Superspace** A. S. Galperin,E. A. Ivanov,V. I. Ogievetsky,E. S. Sokatchev,2001-09-27 This is a pedagogical introduction to the harmonic superspace method in extended supersymmetry Inspired by exciting

developments in superstring theory it provides a systematic treatment of the quantum field theories with N 2 and N 3 supersymmetry in harmonic superspace The authors present the harmonic superspace approach as a means of providing an off shell description of the N 2 supersymmetric theories both at the classical and quantum levels Furthermore they show how it offers a unique way to construct an off shell formulation of a theory with higher supersymmetry namely the N 3 supersymmetric Yang Mills theory Harmonic Superspace makes manifest many remarkable geometric properties of the N 2 theories for example the one to one correspondence between N 2 supersymmetric matter and hyper K hler and quaternionic manifolds This book will be of interest to researchers and graduate students working in the areas of supersymmetric quantum field theory string theory and complex geometries   Introduction to Classical Integrable Systems Olivier Babelon,Denis Bernard,Michel Talon,2003-04-17 This book provides a thorough introduction to the theory of classical integrable systems discussing the various approaches to the subject and explaining their interrelations The book begins by introducing the central ideas of the theory of integrable systems based on Lax representations loop groups and Riemann surfaces These ideas are then illustrated with detailed studies of model systems The connection between isomonodromic deformation and integrability is discussed and integrable field theories are covered in detail The KP KdV and Toda hierarchies are explained using the notion of Grassmannian vertex operators and pseudo differential operators A chapter is devoted to the inverse scattering method and three complementary chapters cover the necessary mathematical tools from symplectic geometry Riemann surfaces and Lie algebras The book contains many worked examples and is suitable for use as a textbook on graduate courses It also provides a comprehensive reference for researchers already working in the field

D-Branes Clifford V. Johnson,2006-11-02 D branes represent a key theoretical tool in the understanding of strongly coupled superstring theory and M theory They have led to many striking discoveries including the precise microphysics underlying the thermodynamic behaviour of certain black holes and remarkable holographic dualities between large N gauge theories and gravity This book provides a self contained introduction to the technology of D branes presenting the recent developments and ideas in a pedagogical manner It is suitable for use as a textbook in graduate courses on modern string theory and theoretical particle physics and will also be an indispensable reference for seasoned practitioners The introductory material is developed by first starting with the main features of string theory needed to get rapidly to grips with D branes uncovering further aspects while actually working with D branes Many advanced applications are covered with discussions of open problems which could form the basis for other avenues of research   *Classical Covariant Fields* Mark Burgess,2002-04-04 This 2002 book discusses the classical foundations of field theory using the language of variational methods and covariance It explores the limits of what can be achieved with purely classical notions and shows how these have a deep and important connection with the second quantized field theory which follows on from the Schwinger Action Principle The book takes a pragmatic view of field theory focusing on issues which are usually omitted from quantum field

theory texts and cataloging results which are often hard to find in the literature Care is taken to explain how results arise and how to interpret them physically for graduate students starting out in the field Many physical examples are provided making the book an ideal supplementary text for courses on elementary field theory group theory and dynamical systems It will also be a valuable reference for researchers already working in these and related areas **Gravitational Solitons** V. Belinski,E. Verdaguer,2001-07-19 This 2001 book gives a self contained exposition of the theory of gravitational solitons and provides a comprehensive review of exact soliton solutions to Einstein s equations The text begins with a detailed discussion of the extension of the Inverse Scattering Method to the theory of gravitation starting with pure gravity and then extending it to the coupling of gravity with the electromagnetic field There follows a systematic review of the gravitational soliton solutions based on their symmetries These solutions include some of the most interesting in gravitational physics such as those describing inhomogeneous cosmological models cylindrical waves the collision of exact gravity waves and the Schwarzschild and Kerr black holes A valuable reference for researchers and graduate students in the fields of general relativity string theory and cosmology this book will also be of interest to mathematical physicists in general **Methods of Contemporary Gauge Theory** Yuri Makeenko,2023-07-27 This 2002 book is a thorough introduction to quantum theory of gauge fields with emphasis on modern non perturbative methods **Foundations of Quantum Group Theory** Shahn Majid,2000 A graduate level text which systematically lays out the foundations of Quantum Groups **Gravitational N-Body Simulations** Sverre J. Aarseth,Sverre Johannes Aarseth,2003-10-23 This book discusses in detail all the relevant numerical methods for the classical N body problem It demonstrates how to develop clear and elegant algorithms for models of gravitational systems and explains the fundamental mathematical tools needed to describe the dynamics of a large number of mutually attractive particles Particular attention is given to the techniques needed to model astrophysical phenomena such as close encounters and the dynamics of black hole binaries The author reviews relevant work in the field and covers applications to the problems of planetary formation and star cluster dynamics both of Pleiades type and globular clusters Self contained and pedagogical this book is suitable for graduate students and researchers in theoretical physics astronomy and cosmology **Loops, Knots, Gauge Theories** Rodolfo Gambini,Jorge Pullin,2023-02-16 This volume provides a self contained introduction to applications of loop representations in particle physics and quantum gravity in order to explore the gauge invariant quantization of Yang Mills theories and gravity First published in 1996 this title has been reissued as an Open Access publication on Cambridge Core **Moonshine beyond the Monster** Terry Gannon,2023-07-27 A monograph on Moonshine a mathematical physics topic for graduate students and researchers **The Scalar-Tensor Theory of Gravitation** Yasunori Fujii,Kei-ichi Maeda,2003-01-02 The scalar tensor theory of gravitation is one of the most popular alternatives to Einstein s theory of gravitation This book provides a clear and concise introduction to the theoretical ideas and developments exploring scalar fields and placing them in context with a discussion of Brans Dicke theory Topics covered

include the cosmological constant problem time variability of coupling constants higher dimensional space time branes and conformal transformations The authors emphasize the physical applications of the scalar tensor theory and thus provide a pedagogical overview of the subject keeping more mathematically detailed sections for the appendices This book is suitable for graduate courses in cosmology gravitation and relativity It will also provide a valuable reference for researchers

Exact Solutions of Einstein's Field Equations Hans Stephani,Dietrich Kramer,Malcolm MacCallum,Cornelius Hoenselaers,Eduard Herlt,2009-09-24 A paperback edition of a classic text this book gives a unique survey of the known solutions of Einstein s field equations for vacuum Einstein Maxwell pure radiation and perfect fluid sources It introduces the foundations of differential geometry and Riemannian geometry and the methods used to characterize find or construct solutions The solutions are then considered ordered by their symmetry group their algebraic structure Petrov type or other invariant properties such as special subspaces or tensor fields and embedding properties Includes all the developments in the field since the first edition and contains six completely new chapters covering topics including generation methods and their application colliding waves classification of metrics by invariants and treatments of homothetic motions This book is an important resource for graduates and researchers in relativity theoretical physics astrophysics and mathematics It can also be used as an introductory text on some mathematical aspects of general relativity   **Conformal Invariance and Critical Phenomena** Malte Henkel,2013-03-14 Critical phenomena arise in a wide variety of physical systems Classi cal examples are the liquid vapour critical point or the paramagnetic ferromagnetic transition Further examples include multicomponent fluids and alloys superfluids superconductors polymers and fully developed tur bulence and may even extend to the quark gluon plasma and the early uni verse as a whole Early theoretical investigators tried to reduce the problem to a very small number of degrees of freedom such as the van der Waals equation and mean field approximations culminating in Landau s general theory of critical phenomena Nowadays it is understood that the common ground for all these phenomena lies in the presence of strong fluctuations of infinitely many coupled variables This was made explicit first through the exact solution of the two dimensional Ising model by Onsager Systematic subsequent developments have been leading to the scaling theories of critical phenomena and the renormalization group which allow a precise description of the close neighborhood of the critical point often in good agreement with experiments In contrast to the general understanding a century ago the presence of fluctuations on all length scales at a critical point is emphasized today This can be briefly summarized by saying that at a critical point a system is scale invariant In addition conformal invaTiance permits also a non uniform local rescal ing provided only that angles remain unchanged   **Topological Solitons** Nicholas Manton,Paul Sutcliffe,2004-06-10 Topological solitons occur in many nonlinear classical field theories They are stable particle like objects with finite mass and a smooth structure Examples are monopoles and Skyrmions Ginzburg Landau vortices and sigma model lumps and Yang Mills instantons This book is a comprehensive survey of static topological solitons and their dynamical interactions Particular

emphasis is placed on the solitons which satisfy first order Bogomolny equations For these the soliton dynamics can be investigated by finding the geodesics on the moduli space of static multi soliton solutions Remarkable scattering processes can be understood this way The book starts with an introduction to classical field theory and a survey of several mathematical techniques useful for understanding many types of topological soliton Subsequent chapters explore key examples of solitons in one two three and four dimensions The final chapter discusses the unstable sphaleron solutions which exist in several field theories   Finite-Temperature Field Theory Joseph I. Kapusta,Charles Gale,2023-07-27 Develops the basic formalism and theoretical techniques for relativistic quantum field theory at high temperature and density now Open Access

Whispering the Strategies of Language: An Emotional Journey through **Quantum Groups In Two Dimensional Physics**

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