QUANTIZATION AND INFINITE-DIMENSIONAL SYSTEMS

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Quantization And Infinite Dimensional Systems:

Quantization and Infinite-Dimensional Systems S.T. Ali,J-P Antoine,W. Lisiecki,I.M. Mladenov,A. Odzijewicz,2013-03-09 As all participants know by now the Bialowieza Summer Workshop has acquired a life of its own The charming venue of the meetings the informal atmosphere the enthusiasm of the participants and the intensity of the scientific interaction have all conspired to make these meetings wonderful learning experiences The XIIth Workshop held from July 1 7 1993 was once again a topical meeting within the general area of Differential Geometric Methods in Physics focusing specifically on Quantization and Infinite dimensional Systems Altogether about fifty participants attended the workshop As before the aim of the workshop was to have a small number of in depth lectures on the main theme and a somewhat larger number of short presentations on related areas while leaving enough free time for private discussions and exchange of ideas Topics treated in the workshop included field theory geometric quantization and symplectic geometry coherent states methods holomorphic representation theory Poisson structures non commutative geometry supersymmetry and quantum groups The editors have the pleasant task of first thanking all the local organizers in particular Dr K Gilewicz for their painstaking efforts in ensuring the smooth running of the meeting and for organizing a delightful array of social events Secondly they would like to record their indebtedness to all the people who have contributed to this volume and to the redoubtable Ms Cindy Parkinson without whose patient typesetting and editing skills the volume could hardly have seen the light of the day   **Quantization And Coherent States Methods - Proceedings Of Xi Workshop On Geometric Methods In Physics** S Twareque Ali,Anatol Odzijewicz,I M Mladenov,1993-10-29 The aim of the conference was to find common elements between quantization and coherent states and quantization on Poisson manifolds Topics included are coherent states geometric quantization phase space quantization deformation and products and Berry s phase   **Coherent States, Wavelets, and Their Generalizations** Syed Twareque Ali,Jean-Pierre Antoine,Jean-Pierre Gazeau,2013-10-30 This second edition is fully updated covering in particular new types of coherent states the so called Gazeau Klauder coherent states nonlinear coherent states squeezed states as used now routinely in quantum optics and various generalizations of wavelets wavelets on manifolds curvelets shearlets etc In addition it contains a new chapter on coherent state quantization and the related probabilistic aspects As a survey of the theory of coherent states wavelets and some of their generalizations it emphasizes mathematical principles subsuming the theories of both wavelets and coherent states into a single analytic structure The approach allows the user to take a classical like view of quantum states in physics Starting from the standard theory of coherent states over Lie groups the authors generalize the formalism by associating coherent states to group representations that are square integrable over a homogeneous space a further step allows one to dispense with the group context altogether In this context wavelets can be generated from coherent states of the affine group of the real line and higher dimensional wavelets arise from coherent states of other groups The unified background makes transparent an entire

range of properties of wavelets and coherent states Many concrete examples such as coherent states from semisimple Lie groups Gazeau Klauder coherent states coherent states for the relativity groups and several kinds of wavelets are discussed in detail The book concludes with a palette of potential applications from the quantum physically oriented like the quantum classical transition or the construction of adequate states in quantum information to the most innovative techniques to be used in data processing Intended as an introduction to current research for graduate students and others entering the field the mathematical discussion is self contained With its extensive references to the research literature the first edition of the book is already a proven compendium for physicists and mathematicians active in the field and with full coverage of the latest theory and results the revised second edition is even more valuable __Probability Theory and Mathematical Statistics. Vol. 2__ B. Grigelionis,Yu. V. Prohorov,V. V. Sazonov,V. Statulevičius,2020-05-18 No detailed description available for PROB TH MATH ST GRIGELIONIS VOL 2 PROC 5 1989 E BOOK **Coherent States and Their Applications** Jean-Pierre Antoine,Fabio Bagarello,Jean-Pierre Gazeau,2018-06-01 Coherent states CS were originally introduced in 1926 by Schr dinger and rediscovered in the early 1960s in the context of laser physics Since then they have evolved into an extremely rich domain that pervades virtually every corner of physics and have also given rise to a range of research topics in mathematics The purpose of the 2016 CIRM conference was to bring together leading experts in the field with scientists interested in related topics to jointly investigate their applications in physics their various mathematical properties and their generalizations in many directions Instead of traditional proceedings this book presents sixteen longer review type contributions which are the outcome of a collaborative effort by many conference participants subsequently reviewed by independent experts The book aptly illustrates the diversity of CS aspects from purely mathematical topics to physical applications including quantum gravity *Quantum Theory, Groups and Representations* Peter Woit,2017-11-01 This text systematically presents the basics of quantum mechanics emphasizing the role of Lie groups Lie algebras and their unitary representations The mathematical structure of the subject is brought to the fore intentionally avoiding significant overlap with material from standard physics courses in quantum mechanics and quantum field theory The level of presentation is attractive to mathematics students looking to learn about both quantum mechanics and representation theory while also appealing to physics students who would like to know more about the mathematics underlying the subject This text showcases the numerous differences between typical mathematical and physical treatments of the subject The latter portions of the book focus on central mathematical objects that occur in the Standard Model of particle physics underlining the deep and intimate connections between mathematics and the physical world While an elementary physics course of some kind would be helpful to the reader no specific background in physics is assumed making this book accessible to students with a grounding in multivariable calculus and linear algebra Many exercises are provided to develop the reader s understanding of and facility in quantum theoretical concepts and calculations **Mathematical Horizons For Quantum Physics** Huzihiro

Araki,Leong-chuan Kwek,Jun Suzuki,Berthold-georg Englert,2010-06-28 Quantum theory is one of the most important intellectual developments in the early twentieth century The confluence of mathematics and quantum physics emerged arguably from Von Neumann s seminal work on the spectral theory of linear operators This volume arose from a two month workshop held at the Institute for Mathematical Sciences at the National University of Singapore in July September 2008 on mathematical physics focusing specifically on operator algebras in quantum theory This volume is essentially written for graduate students and young researchers so that they can acquire a gentle introduction to the application of operator algebras to quantum information sciences chaotic and many body problems Several lecture notes delivered during the workshop by experts in the field were specially commissioned for this volume **Heat Kernels and Analysis on Manifolds, Graphs, and Metric Spaces** Pascal Auscher,T. Coulhon,2003 This volume contains the expanded lecture notes of courses taught at the Emile Borel Centre of the Henri Poincare Institute Paris In the book leading experts introduce recent research in their fields The unifying theme is the study of heat kernels in various situations using related geometric and analytic tools Topics include analysis of complex coefficient elliptic operators diffusions on fractals and on infinite dimensional groups heat kernel and isoperimetry on Riemannian manifolds heat kernels and infinite dimensional analysis diffusions and Sobolev type spaces on metric spaces quasi regular mappings and p Laplace operators heat kernel and spherical inversion on SL 2 C random walks and spectral geometry on crystal lattices isoperimetric and isocapacitary inequalities and generating function techniques for random walks on graphs This volume is suitable for graduate students and research mathematicians interested in random processes and analysis on manifolds **Quantum Theory, Deformation and Integrability** R. Carroll,2000-11-09 About four years ago a prominent string theorist was quoted as saying that it might be possible to understand quantum mechanics by the year 2000 Sometimes new mathematical developments make such understanding appear possible and even close but on the other hand increasing lack of experimental verification make it seem to be further distant In any event one seems to arrive at new revolutions in physics and mathematics every year This book hopes to convey some of the excitment of this period but will adopt a relatively pedestrian approach designed to illuminate the relations between quantum and classical There will be some discussion of philosophical matters such as measurement uncertainty decoherence etc but philosophy will not be emphasized generally we want to enjoy the fruits of computation based on the operator formulation of QM and quantum field theory In Chapter 1 connections of QM to deterministic behavior are exhibited in the trajectory representations of Faraggi Matone Chapter 1 also includes a review of KP theory and some preliminary remarks on coherent states density matrices etc and more on deterministic theory We develop in Chapter 4 relations between quantization and integrability based on Moyal brackets discretizations KP strings and Hirota formulas and in Chapter 2 we study the QM of embedded curves and surfaces illustrating some QM effects of geometry Chapter 3 is on quantum integrable systems quantum groups and modern

deformation quantization Chapter 5 involves the Whitham equations in various roles mediating between QM and classical behavior In particular connections to Seiberg Witten theory arising in N 2 supersymmetric susy Yang Mills YM theory are discussed and we would still like to understand more deeply what is going on Thus in Chapter 5 we will try to give some conceptual background for susy gauge theories renormalization etc from both a physical and mathematical point of view In Chapter 6 we continue the deformation quantization then by exhibiting material based on and related to noncommutative geometry and gauge theory **Algebraic Integrability of Nonlinear Dynamical Systems on Manifolds** A.K. Prykarpatsky,I.V. Mykytiuk,2013-04-09 In recent times it has been stated that many dynamical systems of classical mathematical physics and mechanics are endowed with symplectic structures given in the majority of cases by Poisson brackets Very often such Poisson structures on corresponding manifolds are canonical which gives rise to the possibility of producing their hidden group theoretical essence for many completely integrable dynamical systems It is a well understood fact that great part of comprehensive integrability theories of nonlinear dynamical systems on manifolds is based on Lie algebraic ideas by means of which in particular the classification of such compatibly bi Hamiltonian and isospectrally Lax type integrable systems has been carried out Many chapters of this book are devoted to their description but to our regret so far the work has not been completed Hereby our main goal in each analysed case consists in separating the basic algebraic essence responsible for the complete integrability and which is at the same time in some sense universal i e characteristic for all of them Integrability analysis in the framework of a gradient holonomic algorithm devised in this book is fulfilled through three stages 1 finding a symplectic structure Poisson bracket transforming an original dynamical system into a Hamiltonian form 2 finding first integrals action variables or conservation laws 3 defining an additional set of variables and some functional operator quantities with completely controlled evolutions for instance as Lax type representation

Introduction to the Statistical Physics of Integrable Many-body Systems Ladislav Šamaj,Zoltán Bajnok,2013-05-16 Including topics not traditionally covered in literature such as 1 1 dimensional QFT and classical 2D Coulomb gases this book considers a wide range of models and demonstrates a number of situations to which they can be applied Beginning with a treatise of nonrelativistic 1D continuum Fermi and Bose quantum gases of identical spinless particles the book describes the quantum inverse scattering method and the analysis of the related Yang Baxter equation and integrable quantum Heisenberg models It also discusses systems within condensed matter physics the complete solution of the sine Gordon model and modern trends in the thermodynamic Bethe ansatz Each chapter concludes with problems and solutions to help consolidate the reader s understanding of the theory and its applications Basic knowledge of quantum mechanics and equilibrium statistical physics is assumed making this book suitable for graduate students and researchers in statistical physics quantum mechanics and mathematical and theoretical physics **Twenty Years Of Bialowieza: A Mathematical Anthology: Aspects Of Differential Geometric Methods In Physics** S Twareque Ali,Gerard Gustav Emch,Anatol Odzijewicz,Martin

Schlichenmaire,Stanislaw L Woronowicz,2005-01-27 This volume marks the twentieth anniversary of the Bialowieza series of meetings on Differential Geometric Methods in Physics the anniversary meeting was held during July 1 7 2001 The Bialowieza meetings held every year during the first week of July have now grown into an annual pilgrimage for an international group of physicists and mathematicians The topics discussed at the meetings while within the broad area of differential geometric methods in physics have focused around quantization coherent states infinite dimensional systems symplectic geometry spectral theory and harmonic analysis The present volume brings together a set of specially invited papers from leading experts in the various fields who have contributed to these meetings and whose work represents a cross section of the topics discussed Consequently rather than a proceedings volume this book embodies the spirit of the Bialowieza workshops and reflects their scientific tenor as a tribute to the completion of two decades of a shared scientific experience This book will be of interest to researchers and graduate students working in the area of differential geometric methods in physics as it gives interesting glimpses into the present state of the art from different points of view *Lie Theory and Its Applications in Physics* Vladimir Dobrev,2015-01-26 Traditionally Lie theory is a tool to build mathematical models for physical systems Recently the trend is towards geometrization of the mathematical description of physical systems and objects A geometric approach to a system yields in general some notion of symmetry which is very helpful in understanding its structure Geometrization and symmetries are meant in their widest sense i e representation theory algebraic geometry infinite dimensional Lie algebras and groups superalgebras and supergroups groups and quantum groups noncommutative geometry symmetries of linear and nonlinear PDE special functions and others Furthermore the necessary tools from functional analysis and number theory are included This is a big interdisciplinary and interrelated field Samples of these fresh trends are presented in this volume based on contributions from the Workshop Lie Theory and Its Applications in Physics held near Varna Bulgaria in June 2013 This book is suitable for a broad audience of mathematicians mathematical physicists and theoretical physicists and researchers in the field of Lie Theory *Real and Functional Analysis* Vladimir I. Bogachev,Oleg G. Smolyanov,2020-02-25 This book is based on lectures given at Mekhmat the Department of Mechanics and Mathematics at Moscow State University one of the top mathematical departments worldwide with a rich tradition of teaching functional analysis Featuring an advanced course on real and functional analysis the book presents not only core material traditionally included in university courses of different levels but also a survey of the most important results of a more subtle nature which cannot be considered basic but which are useful for applications Further it includes several hundred exercises of varying difficulty with tips and references The book is intended for graduate and PhD students studying real and functional analysis as well as mathematicians and physicists whose research is related to functional analysis **Strings, Conformal Fields, and M-Theory** Michio Kaku,2012-12-06 String theory continues to progress at an astonishing rate and this book brings the reader up to date with the latest developments and the most active areas of

research in the field Building on the foundations laid in his Introduction to Superstrings and M Theory Professor Kaku discusses such topics as the classification of conformal string theories knot theory the Yang Baxter relation quantum groups and the insights into 11 dimensional strings recently obtained from M theory New chapters discuss such topics as Seiberg Witten theory M theory and duality and D branes Several chapters review the fundamentals of string theory making the presentation of the material self contained while keeping overlap with the earlier book to a minimum This book conveys the vitality of the current research and places readers at its forefront **Proceedings of the Second International Workshop on Contemporary Problems in Mathematical Physics** Jan Govaerts,M. Norbert Hounkonnou,Alfred Z. Msezane,2002 The following topics are discussed in this volume recent developments in operator theory coherent states and wavelet analysis geometric and topological methods in theoretical physics and quantum field theory and applications of these methods of mathematical physics to problems in atomic and molecular physics as well as the world of the elementary particles and their fundamental interactions Two extensive sets of lecture notes on quantization techniques in general and quantum gauge theories and strings as an avenue towards quantum geometry are also included The volume should be of interest to anyone working in a field using the mathematical methods associated with any of these topics <u>What Is a Quantum Field Theory?</u> Michel Talagrand,2022-03-17 A lively and erudite introduction for readers with a background in undergraduate mathematics but no previous knowledge of physics *Foundations Of Mechanics* Ralph Abraham,2019-04-24 Foundations of Mechanics is a mathematical exposition of classical mechanics with an introduction to the qualitative theory of dynamical systems and applications to the two body problem and three body problem **Topics in Mathematical Physics, General Relativity, and Cosmology in Honor of Jerzy Pleba?ski** Hugo Garcia-Compe n,Bogdan Mielnik,Merced Montesinos,2006 One of modern science s most famous and controversial figures Jerzy Plebanski was an outstanding theoretical physicist and an author of many intriguing discoveries in general relativity and quantum theory Known for his exceptional analytic talents explosive character inexhaustible energy and bohemian nights with brandy coffee and enormous amounts of cigarettes he was dedicated to both science and art producing innumerable handwritten articles resembling monk s calligraphy as well as a collection of oil paintings As a collaborator but also an antagonist of Leopold Infeld s a coauthor of Albert Einstein s Plebanski is recognized for designing the heavenly and hyper heavenly equations for introducing new variables to describe the gravitational field for the exact solutions in Einstein s gravity and in quantum theory for his classification of the tensor of matter for some outstanding results in nonlinear electrodynamics and for analyzing general relativity with continuous sources long before Chandrasekhar et al A tribute to Plebaski s contributions and the variety of his interests this is a unique and wide ranging collection of invited papers covering gravity quantization strings branes supersymmetry ideas on the deformation quantization and lesser known results on the continuous Baker Campbell Hausdorff problem *Contemporary Problems In Mathematical Physics - Proceedings Of The Second*

International Workshop Jan Govaerts,M Norbert Hounkonnou,Alfred Z Msezane,2002-10-18 The following topics are discussed in this volume recent developments in operator theory coherent states and wavelet analysis geometric and topological methods in theoretical physics and quantum field theory and applications of these methods of mathematical physics to problems in atomic and molecular physics as well as the world of the elementary particles and their fundamental interactions Two extensive sets of lecture notes on quantization techniques in general and quantum gauge theories and strings as an avenue towards quantum geometry are also included The volume should be of interest to anyone working in a field using the mathematical methods associated with any of these topics

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