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Geometric Quantization and Quantum Mechanics



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Geometric Quantization and Quantum Mechanics Jędrzej Śniatycki, 2012-12-06 This book contains a revised and expanded version of the lecture notes of two seminar series given during the academic year 1976-77 at the Department of Mathematics and Statistics of the University of Calgary and in the summer of 1978 at the Institute of Theoretical Physics of the Technical University Clausthal. The aim of the seminars was to present geometric quantization from the point of view of its applications to quantum mechanics and to introduce the quantum dynamics of various physical systems as the result of the geometric quantization of the classical dynamics of these systems. The group representation aspects of geometric quantization as well as proofs of the existence and the uniqueness of the introduced structures can be found in the expository papers of Blattner, Kostant, Sternberg and Wolf and also in the references quoted in these papers. The books of Souriau 1970 and Simms and Woodhouse 1976 present the theory of geometric quantization and its relationship to quantum mechanics. The purpose of the present book is to complement the preceding ones by including new developments of the theory and emphasizing the computations leading to results in quantum mechanics. **Mathematical Aspects of**

Quantization Sam Evens, 2012 This book is a collection of expository articles from the Center of Mathematics at Notre Dame's 2011 program on quantization. Included are lecture notes from a summer school on quantization on topics such as the Cherednik algebra, geometric quantization, detailed proofs of Willwacher's results on the Kontsevich graph complex and group-valued moment maps. This book also includes expository articles on quantization and automorphic forms, renormalization, Berezin-Toeplitz quantization in the complex setting and the commutation of quantization with reduction as well as an original article on derived Poisson brackets. The primary goal of this volume is to make topics in quantization more accessible to graduate students and researchers. *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 a 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 Dynamical Systems IV S.P. Novikov, 2001-06-20 From the reviews of the first edition Here a wealth of material is displayed for us too much to even indicate in a review Your reviewer was very impressed by the contents of both volumes EMS 2 and 4 recommending them without any restriction Mededelingen van het Wiskundig genootschap 1992 The Metaplectic Representation, Mp^c Structures and Geometric Quantization Paul Lee Robinson, John Howard Rawnsley, 1989 We present an account of the metaplectic representation in terms of the Bargmann Segal model rather than the standard Schrödinger model this allows us to describe explicitly the structure and pairing of vacuum states for positive polarizations We develop a scheme for geometric spinors and following Hess using Mp^c superscript italic c structures in place of metaplectic structures The Geometry of Heisenberg Groups Ernst Binz, Sonja Pods, 2008 The three dimensional Heisenberg group being a quite simple non commutative Lie group appears prominently in various applications of mathematics The goal of this book is to present basic geometric and algebraic properties of the Heisenberg group and its relation to other important mathematical structures the skew field of quaternions symplectic structures and representations and to describe some of its applications In particular the authors address such subjects as signal analysis and processing geometric optics and quantization In each case the authors present necessary details of the applied topic being considered This book manages to encompass a large variety of topics being easily accessible in its fundamentals It can be useful to students and researchers working in mathematics and in applied mathematics BOOK JACKET The Orbit Method in Representation Theory Dulfo, Pederson, Vergne, 2012-12-06 Ever since its introduction around 1960 by Kirillov the orbit method has played a major role in representation theory of Lie groups and Lie algebras This book contains the proceedings of a conference held from August 29 to September 2 1988 at the University of Copenhagen about the orbit method in representation theory It contains ten articles most of which are original research papers by well known mathematicians in the field and it reflects the fact that the orbit method plays an important role in the representation theory of semisimple Lie groups solvable Lie groups and even more general Lie groups and also in the theory of enveloping algebras Differential Geometry of Singular Spaces and Reduction of Symmetry J. Śniatycki, 2013-06-13 In this book the author illustrates the power of the theory of subcartesian differential spaces for investigating spaces with singularities Part I gives a detailed and comprehensive presentation of the theory of differential spaces including integration of distributions on subcartesian spaces and the structure of stratified spaces Part II presents an effective approach to the reduction of symmetries Concrete applications covered in the text include reduction of symmetries of Hamiltonian systems non holonomically constrained systems Dirac structures and the commutation of quantization with reduction for a proper action of the symmetry group With each application the author provides an introduction to the field in which relevant problems occur This book will appeal to researchers and graduate students in mathematics and engineering

Lie Theory And Its Applications In Physics - Proceedings Of An International Workshop Vladimir K

Dobrev, Heinz-dietrich Doebner, Joachim Hilgert, 1996-10-16 There is an apparent trend towards geometrization of physical theories During the last 20 years the most successful mathematical models for the description and understanding of physical systems have been based on the Lie theory in its widest sense and various generalizations for example deformations of it This proceedings volume reflects part of the development On the mathematical side they report on representations of Lie algebras quantization procedures non commutative geometry quantum groups etc Furthermore possible physical applications of these techniques are discussed e g quantization of classical systems derivations of evolution equations discrete and deformed physical systems This volume complements the book Generalized Symmetries in Physics published by World Scientific in 1994

Surveys in Geometry and Number Theory Nicholas Young, 2007-01-18 A collection of survey articles by leading young researchers showcasing the vitality of Russian mathematics

Galois Theory, Hopf Algebras, and Semiabelian Categories George Janelidze, Bodo Pareigis, and Walter Tholen, **Symmetries in Science VI** Samuel H.

Gruber, 2013-11-11 The Symposium Symmetries in Science VI From the Rotation Group to Quantum Algebras was held at the Cloister Mehrerau Bregenz Austria during the period August 2 7 1992 The Symposium was held in honor of Professor Lawrence C Biedenharn on the occasion of his 70th birthday During the academic year 1966 67 I worked as research associate with Larry at Duke University and we have ever since maintained close contact It was thus natural for me to take the initiative and to organize this Symposium in honor of Larry as a great scientist and friend The response which the Symposium received showed the favorable reaction by the scientific community to the opportunity provided by the Symposium to honor our colleague teacher and friend Equally the scientific contributions contained in this volume illustrate the high esteem in which he is held I wish to thank all the scientists who participated in the Symposium and who contributed to this volume It is due to their commitment that the Symposium was successful Finally I need to thank those who provided financial and logistical assistance to the Symposium Dr John H Guyon President of Southern Illinois University at Carbondale Dr Russell R Dutcher Dean College of Science at SIUC Dr Maurice A Wright Chairman Department of Physics SIUC Dr Victoria J Molfese Office of Research Development and Administration SIUC as well as Dr Martin Purtscher

Landeshauptmann Land Vorarlberg Dr Guntram Lins Landesrat Land Vorarlberg **The Influence of Solomon Lefschetz in Geometry and Topology** Ernesto Lupercio, Francisco J. Turrubiates, 2014-08-05 The influence of Solomon Lefschetz 1884 1972 in geometry and topology 40 years after his death has been very profound Lefschetz s influence in Mexican mathematics has been even greater In this volume celebrating 50 years of mathematics at Cinvestav Mexico many of the fields of geometry and topology are represented by some of the leaders of their respective fields This volume opens with Michael Atiyah reminiscing about his encounters with Lefschetz and Mexico Topics covered in this volume include symplectic flexibility Chern Simons theory and the theory of classical theta functions toric topology the Beilinson conjecture for finite

dimensional associative algebras partial monoids and Dold Thom functors the weak b principle orbit configuration spaces equivariant extensions of differential forms for noncompact Lie groups dynamical systems and categories and the Nahm pole boundary condition Symmetries in Science IX Bruno Gruber, Michael Ramek, 2012-12-06 Proceedings of a symposium held in Bregenz Austria August 6-10 1996 **Configurational Forces as Basic Concepts of Continuum Physics** Morton E. Gurtin, 2008-01-20 For the last decade the author has been working to extend continuum mechanics to treat moving boundaries in materials focusing in particular on problems of metallurgy This monograph presents a rational treatment of the notion of configurational forces it is an effort to promote a new viewpoint Included is a presentation of configurational forces within a classical context and a discussion of their use in areas as diverse as phase transitions and fracture The work should be of interest to materials scientists mechanicians and mathematicians *Periodic Motions* Miklos Farkas, 2013-03-14 The task is done the Maker rests And lo The engine turns A million years shall flow Ere round its axle shall the wheel run slow And a new cog be needed Mad8 ch The Tragedy of Man J C W Horne s translation In this book I tried to sum up the facts and results I considered most important concerning periodic solutions of ordinary differential equations ODEs produced by this century from Henri Poincare up to the youngest mathematician appearing in the list of references I have included also some results of my own that did not find their way into monographs in the past I have done research in this direction for more than 25 years and have given graduate courses about some of the topics covered for many years at the Budapest University of Technology and also at the Universidad Central de Venezuela in Caracas I hope that people interested in differential equations and applications may use this experience Some may say that periodic solutions of ODEs has been a closed chapter of mathematics for some time *Inverse Problems for Partial Differential Equations* Victor Isakov, 2013-06-29 This book describes the contemporary state of the theory and some numerical aspects of inverse problems in partial differential equations The topic is of substantial and growing interest for many scientists and engineers and accordingly to graduate students in these areas Mathematically these problems are relatively new and quite challenging due to the lack of conventional stability and to nonlinearity and nonconvexity Applications include recovery of inclusions from anomalies of their gravitational fields reconstruction of the interior of the human body from exterior electrical ultrasonic and magnetic measurements recovery of interior structural parameters of detail of machines and of the underground from similar data non destructive evaluation and locating flying or navigated objects from their acoustic or electromagnetic fields Currently there are hundreds of publications containing new and interesting results A purpose of the book is to collect and present many of them in a readable and informative form Rigorous proofs are presented whenever they are relatively short and can be demonstrated by quite general mathematical techniques Also we prefer to present results that from our point of view contain fresh and promising ideas In some cases there is no complete mathematical theory so we give only available results We do not assume that a reader possesses an enormous mathematical technique In fact a moderate knowledge of partial differential

equations of the Fourier transform and of basic functional analysis will suffice

Integral Manifolds and Inertial Manifolds for Dissipative Partial Differential Equations P. Constantin, C. Foias, B. Nicolaenko, R. Temam, 2012-12-06 This work was initiated in the summer of 1985 while all of the authors were at the Center of Nonlinear Studies of the Los Alamos National Laboratory it was then continued and polished while the authors were at Indiana University at the University of Paris Sud Orsay and again at Los Alamos in 1986 and 1987 Our aim was to present a direct geometric approach in the theory of inertial manifolds global analogs of the unstable center manifolds for dissipative partial differential equations This approach based on Cauchy integral manifolds for which the solutions of the partial differential equations are the generating characteristic curves has the advantage that it provides a sound basis for numerical Galerkin schemes obtained by approximating the inertial manifold The work is self contained and the prerequisites are at the level of a graduate student The theoretical part of the work is developed in Chapters 2-14 while in Chapters 15-19 we apply the theory to several remarkable partial differential equations

Weakly Connected Neural Networks Frank C. Hoppensteadt, Eugene M. Izhikevich, 2012-12-06 This book is devoted to an analysis of general weakly connected neural networks WCNNs that can be written in the form $\dot{x}_i = f_i(x_i) + \sum_{j=1}^n g_{ij} x_j$ Here each $x_i \in \mathbb{R}^m$ is a vector that summarizes all physiological attributes of the i th neuron n is the number of neurons f_i describes the dynamics of the i th neuron and g_{ij} describes the interactions between neurons The small parameter indicates the strength of connections between the neurons Weakly connected systems have attracted much attention since the second half of seventeenth century when Christian Huygens noticed that a pair of pendulum clocks synchronize when they are attached to a light weight beam instead of a wall The pair of clocks is among the first weakly connected systems to have been studied Systems of the form (0.1) arise in formal perturbation theories developed by Poincaré Liapunov and Malkin and in averaging theories developed by Bogoliubov and Mitropolsky

Analysis and Simulation of Chaotic Systems Frank C. Hoppensteadt, 2013-03-09 Analysis and Simulation of Chaotic Systems is a text designed to be used at the graduate level in applied mathematics for students from mathematics engineering physics chemistry and biology The book can be used as a stand alone text for a full year course or it can be heavily supplemented with material of more mathematical more engineering or more scientific nature Computations and computer simulations are used throughout this text to illustrate phenomena discussed and to supply readers with probes to use on new problems

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