Dirac Principal for Geometric quantization

Before to establish the axiom 4], we need to following definition.

Definition

Let (M, ω), be a symplectic manifold. A set of smooth functions $\{f_j\}$ is said to be a complete set of classical observables if and only if every other function g such that $\{f_j, g\} = 0$ for all $\{f_j\}$, is constant. Also we say that a family of operators is complete if it acts irreducibly on $\mathcal{H}$

4] Minimality condition must holds: Any complete family of functions passes to a complete family of operators. Moreover, if G be a group acting on (M, ω) by symplectomorphisms and on $\mathcal{H}$ by unitary transformations. If the G-action on M is trnsitive, then its action on $\mathcal{H}$ must be irreducible.

Geometric Quantization In Action

Blagoje Oblak

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and p-adic groups Juan Tirao,David Vogan,Joe Wolf,2012-12-06 The representation theory of Lie groups plays a central role in both clas sical and recent developments in many parts of mathematics and physics In August 1995 the Fifth Workshop on Representation Theory of Lie Groups and its Applications took place at the Universidad Nacional de Cordoba in Argentina Organized by Joseph Wolf Nolan Wallach Roberto Miatello Juan Tirao and Jorge Vargas the workshop offered expository courses on current research and individual lectures on more specialized topics The present vol ume reflects the dual character of the workshop Many of the articles will be accessible to graduate students and others entering the field Here is a rough outline of the mathematical content The editors beg the indulgence of the readers for any lapses in this preface in the high standards of historical and mathematical accuracy that were imposed on the authors of the articles Connections between flag varieties and representation theory for real re ductive groups have been studied for almost fifty years from the work of Gelfand and Naimark on principal series representations to that of Beilinson and Bernstein on localization The article of Wolf provides a detailed introduc tion to the analytic side of these developments He describes the construction of standard tempered representations in terms of square integrable partially harmonic forms on certain real group orbits on a flag variety and outlines the ingredients in the Plancherel formula Finally he describes recent work on the complex geometry of real group orbits on partial flag varieties   **Moment Maps, Cobordisms, and Hamiltonian Group Actions** Victor Guillemin,Viktor L. Ginzburg,Yael Karshon,2002 During the last 20 years localization has been one of the dominant themes in the area of equivariant differential geometry Typical results are the Duistermaat Heckman theory the Berline Vergne Atiyah Bott localization theorem in equivariant de Rham theory and the quantization commutes with reduction theorem and its various corollaries To formulate the idea that these theorems are all consequences of a single result involving equivariant cobordisms the authors have developed a cobordism theory that allows the objects to be non compact manifolds A key ingredient in this non compact cobordism is an equivariant geometrical object which they call an abstract moment map This is a natural and important generalization of the notion of a moment map occurring in the theory of Hamiltonian dynamics The book contains a number of appendices that include introductions to proper group actions on manifolds equivariant cohomology Spin mathrm c structures and stable complex structures It is geared toward graduate students and research mathematicians interested in differential geometry It is also suitable for topologists Lie theorists combinatorists and theoretical physicists Prerequisite is some expertise in calculus on manifolds and basic graduate level differential geometry

   Hamiltonian Group Actions and Equivariant Cohomology Shubham Dwivedi,Jonathan Herman,Lisa C. Jeffrey,Theo van den Hurk,2019-09-23 This monograph could be used for a graduate course on symplectic geometry as well as for independent study The monograph starts with an introduction of symplectic vector spaces followed by symplectic manifolds and then Hamiltonian group actions and the Darboux theorem After discussing moment maps and orbits of the coadjoint action symplectic quotients are studied The convexity theorem and toric manifolds come next and we give a comprehensive

treatment of Equivariant cohomology The monograph also contains detailed treatment of the Duistermaat Heckman Theorem geometric quantization and flat connections on 2 manifolds Finally there is an appendix which provides background material on Lie groups A course on differential topology is an essential prerequisite for this course Some of the later material will be more accessible to readers who have had a basic course on algebraic topology For some of the later chapters it would be helpful to have some background on representation theory and complex geometry <u>Differential Geometry of Singular Spaces and Reduction of Symmetry</u> 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 **Geometry, Topology and Quantization** P. Bandyopadhyay,2013-03-07 This is a monograph on geometrical and topological features which arise in various quantization procedures Quantization schemes consider the feasibility of arriving at a quantum system from a classical one and these involve three major procedures viz i geometric quantization ii Klauder quantization and iii stochastic quanti zation In geometric quantization we have to incorporate a hermitian line bundle to effectively generate the quantum Hamiltonian operator from a classical Hamil tonian Klauder quantization also takes into account the role of the connection one form along with coordinate independence In stochastic quantization as pro posed by Nelson Schrodinger equation is derived from Brownian motion processes however we have difficulty in its relativistic generalization It has been pointed out by several authors that this may be circumvented by formulating a new geometry where Brownian motion proceses are considered in external as well as in internal space and when the complexified space time is considered the usual path integral formulation is achieved When this internal space variable is considered as a direc tion vector introducing an anisotropy in the internal space we have the quantization of a Fermi field This helps us to formulate a stochastic phase space formalism when the internal extension can be treated as a gauge theoretic extension This suggests that massive fermions may be considered as Skyrme solitons The nonrelativistic quantum mechanics is achieved in the sharp point limit **Quantization, Geometry and Noncommutative Structures in Mathematics and Physics** Alexander Cardona,Pedro Morales,Hernán Ocampo,Sylvie Paycha,Andrés F. Reyes Lega,2017-10-26 This monograph presents various ongoing approaches to the vast topic of quantization which is the process of forming a quantum mechanical system starting from a classical one and discusses their numerous fruitful interactions with mathematics The opening chapter introduces the various forms of

quantization and their interactions with each other and with mathematics A first approach to quantization called deformation quantization consists of viewing the Planck constant as a small parameter This approach provides a deformation of the structure of the algebra of classical observables rather than a radical change in the nature of the observables When symmetries come into play deformation quantization needs to be merged with group actions which is presented in chapter 2 by Simone Gutt The noncommutativity arising from quantization is the main concern of noncommutative geometry Allowing for the presence of symmetries requires working with principal fiber bundles in a non commutative setup where Hopf algebras appear naturally This is the topic of chapter 3 by Christian Kassel Nichols algebras a special type of Hopf algebras are the subject of chapter 4 by Nicol s Andruskiewitsch The purely algebraic approaches given in the previous chapters do not take the geometry of space time into account For this purpose a special treatment using a more geometric point of view is required An approach to field quantization on curved space time with applications to cosmology is presented in chapter 5 in an account of the lectures of Abhay Ashtekar that brings a complementary point of view to non commutativity An alternative quantization procedure is known under the name of string theory In chapter 6 its supersymmetric version is presented Superstrings have drawn the attention of many mathematicians due to its various fruitful interactions with algebraic geometry some of which are described here The remaining chapters discuss further topics as the Batalin Vilkovisky formalism and direct products of spectral triples This volume addresses both physicists and mathematicians and serves as an introduction to ongoing research in very active areas of mathematics and physics at the border line between geometry topology algebra and quantum field theory **BMS Particles in Three Dimensions** Blagoje Oblak,2017-08-01 This thesis presents the state of the art in the study of Bondi Metzner Sachs BMS symmetry and its applications in the simplified setting of three dimensions It focuses on presenting all the background material in a pedagogical and self contained manner to enable readers to fully appreciate the original results that have been obtained while learning a number of fundamental concepts in the field along the way This makes it a highly rewarding read and a perfect starting point for anybody with a serious interest in the four dimensional problem **Inverse Problems, Tomography, and Image Processing** Alexander G. Ramm,2013-11-11 Proceedings of Sessions from the First Congress of the International Society for Analysis Applications and Computind held in Newark Delaware June 2 6 1997 *Quantum Theory And Symmetries - Proceedings Of The International Symposium* Vladimir K Dobrev,Heinz-dietrich Doebner,J-d Hennig,W Lucke,2000-05-05 This volume gives a representative survey of recent developments in relativistic and non relativistic quantum theory which are related to the application of symmetries in their most general sense The corresponding mathematical notions are centered upon groups algebras and their generalizations and are applied in interaction with topology differential geometry functional analysis and related fields Special emphasis is on results in the following areas quantization methods nonlinear evolution equations foundation of quantum physics algebraic quantum field theory gauge and string theories quantum information quantum

groups discrete symmetries **Nonperturbative Quantum Field Theory** G. Hooft,A. Jaffe,G. Mack,P.K. Mitter,R. Stora,2012-12-06 During the past 15 years quantum field theory and classical statistical mechanics have merged into a single field and the need for nonperturbative methods for the description of critical phenomena in statistical mechanics as well as for problems in elementary particle physics are generally acknowledged Such methods formed the central theme of the 1987 Cargese Advanced Study Institut e on Nonpert urbat ive Quantum Field Theory The use of conformal symmet ry has been of central interest in recent years and was a main subject at t he ASI Conformal invariant quantum field theory describes statistical mechanical systems exactly at a critical point and can be analysed to a remarkable ext ent by group t heoretical methods Very strong results have been obtained for 2 dimensional systems Conformal field theory is also the basis of string theory which offers some hope of providing a unified t heory of all interactions between elementary particles Accordingly a number of lectures and seminars were presented on these two topics After syst ematic introductory lectures conformal field theory on Riemann surfaces orbifolds sigma models and application of loop group theory and Grassmannians were discussed and some ideas on modular geometry were presented Other lectures combined traditional techniques of constructive quant um field theory with new methods such as the use of index t heorems and infinite dimensional Kac Moody symmetry groups The problems encountered in a quantum mechanical description of black holes were discussed in detail *Symplectic Geometry and Mirror Symmetry* Kodǔng Kwahagwǒn (Korea). International Conference,2001 In 1993 M Kontsevich proposed a conceptual framework for explaining the phenomenon of mirror symmetry Mirror symmetry had been discovered by physicists in string theory as a duality between families of three dimensional Calabi Yau manifolds Kontsevich s proposal uses Fukaya s construction of the A category of Lagrangian submanifolds on the symplectic side and the derived category of coherent sheaves on the complex side The theory of mirror symmetry was further enhanced by physicists in the language of D branes and also by Strominger Yau Zaslow in the geometric set up of special Lagrangian torus fibrations It rapidly expanded its scope across from geometry topology algebra to physics In this volume leading experts in the field explore recent developments in relation to homological mirror symmetry Floer theory D branes and Gromov Witten invariants Kontsevich Soibelman describe their solution to the mirror conjecture on the abelian variety based on the deformation theory of A categories and Ohta describes recent work on the Lagrangian intersection Floer theory by Fukaya Oh Ohta Ono which takes an important step towards a rigorous construction of the A category There follow a number of contributions on the homological mirror symmetry D branes and the Gromov Witten invariants e g Getzler shows how the Toda conjecture follows from recent work of Givental Okounkov and Pandharipande This volume provides a timely presentation of the important developments of recent years in this rapidly growing field **Particles And Fields - Proceedings Of The Vii Ja Swieca Summer School** Oscar J P Eboli,Victor Oliveira Rivelles,1994-05-06 Global Dynamics, Phase Space Transport, Orbits Homoclinic to Resonances, and Applications Stephen Wiggins, This monograph which grew out of a series of lectures

delivered by Stephen Wiggins at the Fields Institute in early 1993 is concerned with the geometrical viewpoint of the global dynamics of nonlinear dynamical systems With appropriate examples and concise explanations Wiggins unites many different topics into one volume and makes a unique contribution to the field Engineers physicists chemists and mathematicians who work on issues related to the global dynamics of nonlinear dynamical systems will find these lectures very useful **Locally Toric Manifolds and Singular Bohr-Sommerfeld Leaves** Mark D. Hamilton,2010 Volume 207 number 971 first of 5 numbers *Energy Research Abstracts* ,1994 Semiannual with semiannual and annual indexes References to all scientific and technical literature coming from DOE its laboratories energy centers and contractors Includes all works deriving from DOE other related government sponsored information and foreign nonnuclear information Arranged under 39 categories e g Biomedical sciences basic studies Biomedical sciences applied studies Health and safety and Fusion energy Entry gives bibliographical information and abstract Corporate author subject report number indexes

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