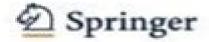# Equivariant Cohomology and Localization of Path Integrals

Richard J. Szabo

Springer

Equivariant Cohomology And Localization Of Path Integrals

Takeyuki Hida

Equivariant Cohomology And Localization Of Path Integrals:

  Equivariant Cohomology and Localization of Path Integrals Richard J. Szabo,2003-07-01 This book addressing both researchers and graduate students reviews equivariant localization techniques for the evaluation of Feynman path integrals The author gives the relevant mathematical background in some detail showing at the same time how localization ideas are related to classical integrability The text explores the symmetries inherent in localizable models for assessing the applicability of localization formulae Various applications from physics and mathematics are presented   **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 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   **Group Actions and Equivariant Cohomology** Loring W. Tu,2024-11-26 This volume contains the proceedings of the virtual AMS Special Session on Equivariant Cohomology held March 19 20 2022 Equivariant topology is the algebraic topology of spaces with symmetries At the meeting equivariant cohomology was broadly interpreted to include related topics in equivariant topology and geometry such as Bredon cohomology equivariant cobordism GKM Goresky Kottwitz and MacPherson theory equivariant K theory symplectic geometry and equivariant Schubert calculus This volume offers a view of the exciting progress made in these fields in the last twenty years Several of the articles are surveys suitable for a general audience of topologists and geometers To be broadly accessible all the authors were instructed to make their presentations somewhat expository This collection should be of interest and useful to graduate students and researchers alike   *Particles and Fields* Gordon W. Semenoff,Luc Vinet,2012-12-06 The focus of this volume is on quantum field theory inegrable theories statistical systems and applications to condensed matter physics It covers some of the most significant recent advances in theoretical physics at a level

accessible to advanced graduate students The contributions each by a noted researcher dicuss such topics as some remarkable features of integrable Toda field theories E Corrigan properties of a gas of interacting Fermions in a lattice of magnetic ions J Feldman al how quantum groups arise in three dimensional topological quantum field thory D Freed a method for computing correlation functions of solvable lattice models T Miwa matrix models discussed from the point of view of integrable systems A Morozov localization of path integrals in certain equivariant cohomologies A Niemi Calogero Moser systems S Ruijsenaars planar gauge theories with broken symmetries M de Wild Propitius F A Bais quantum Hall fluids A Capelli al spectral theory of quantum vortex operators P I Ettinghoff *Stochastic Analysis: Classical And Quantum: Perspectives Of White Noise Theory* Takeyuki Hida,2005-10-06 This volume includes papers by leading mathematicians in the fields of stochastic analysis white noise theory and quantum information together with their applications The papers selected were presented at the International Conference on Stochastic Analysis Classical and Quantum held at Meijo University Nagoya Japan from 1 to 5 November 2004 The large range of subjects covers the latest research in probability theory

Instanton Counting, Quantum Geometry and Algebra Taro Kimura,2021-07-05 This book pedagogically describes recent developments in gauge theory in particular four dimensional N 2 supersymmetric gauge theory in relation to various fields in mathematics including algebraic geometry geometric representation theory vertex operator algebras The key concept is the instanton which is a solution to the anti self dual Yang Mills equation in four dimensions In the first part of the book starting with the systematic description of the instanton how to integrate out the instanton moduli space is explained together with the equivariant localization formula It is then illustrated that this formalism is generalized to various situations including quiver and fractional quiver gauge theory supergroup gauge theory The second part of the book is devoted to the algebraic geometric description of supersymmetric gauge theory known as the Seiberg Witten theory together with string M theory point of view Based on its relation to integrable systems how to quantize such a geometric structure via the deformation of gauge theory is addressed The third part of the book focuses on the quantum algebraic structure of supersymmetric gauge theory After introducing the free field realization of gauge theory the underlying infinite dimensional algebraic structure is discussed with emphasis on the connection with representation theory of quiver which leads to the notion of quiver W algebra It is then clarified that such a gauge theory construction of the algebra naturally gives rise to further affinization and elliptic deformation of W algebra Geometrical Aspects Of Quantum Fields - Proceedings Of The 2000 Londrina Workshop Andrei A Bytsenko,Antonio E Goncalves,Bruto M Pimentel,2001-02-05 This volume presents the following topics non Abelian Toda models brief remarks for physicists on equivariant cohomology and the Duistermaat Heckman formula Casimir effect quantum groups and their application to nuclear physics quantum field theory quantum gravity and the theory of extended objects and black hole physics and cosmology **Quantum Mechanics** Gregory L. Naber,2021-09-20 This work covers quantum mechanics by answering questions such as where did the Planck constant and Heisenberg algebra come from what

motivated Feynman to introduce his path integral and why does one distinguish two types of particles the bosons and fermions The author addresses all these topics with utter mathematical rigor The high number of instructive Appendices and numerous Remark sections supply the necessary background knowledge **Quantum Mechanics for Mathematicians** Leon Armenovich Takhtadzhi͡an,2008 This book provides a comprehensive treatment of quantum mechanics from a mathematics perspective and is accessible to mathematicians starting with second year graduate students It addition to traditional topics like classical mechanics mathematical foundations of quantum mechanics quantization and the Schrodinger equation this book gives a mathematical treatment of systems of identical particles with spin and it introduces the reader to functional methods in quantum mechanics This includes the Feynman path integral approach to quantum mechanics integration in functional spaces the relation between Feynman and Wiener integrals Gaussian integration and regularized determinants of differential operators fermion systems and integration over anticommuting Grassmann variables supersymmetry and localization in loop spaces and supersymmetric derivation of the Atiyah Singer formula for the index of the Dirac operator Prior to this book mathematicians could find these topics only in physics textbooks and in specialized literature This book is written in a concise style with careful attention to precise mathematics formulation of methods and results Numerous problems from routine to advanced help the reader to master the subject In addition to providing a fundamental knowledge of quantum mechanics this book could also serve as a bridge for studying more advanced topics in quantum physics among them quantum field theory Prerequisites include standard first year graduate courses covering linear and abstract algebra topology and geometry and real and complex analysis **Algorithms as a Basis of Modern Applied Mathematics** Šárka Hošková-Mayerová,Cristina Flaut,Fabrizio Maturo,2021-01-13 This book offers a self contained guide to advanced algorithms and their applications in various fields of science Gathering contributions by authoritative researchers in the field of mathematics statistics and computer science it aims at offering a comprehensive and up to date view of algorithms including the theory behind them as well as practical considerations current limitations and solutions It covers applications in energy management decision making computer networks materials science mechanics and process optimization It offers an integrated and timely guide to important algorithms and represents a valuable reference resource for graduate students and researchers in various fields of applied mathematics statistics and engineering Quantum Field Theory and Noncommutative Geometry Ursula Carow-Watamura,Yoshiaki Maeda,2005-02-21 This volume reflects the growing collaboration between mathematicians and theoretical physicists to treat the foundations of quantum field theory using the mathematical tools of q deformed algebras and noncommutative differential geometry A particular challenge is posed by gravity which probably necessitates extension of these methods to geometries with minimum length and therefore quantization of space This volume builds on the lectures and talks that have been given at a recent meeting on Quantum Field Theory and Noncommutative Geometry A considerable effort has been invested in making the contributions accessible

to a wider community of readers so this volume will not only benefit researchers in the field but also postgraduate students and scientists from related areas wishing to become better acquainted with this field   Quantum Field Theory I: Basics in Mathematics and Physics Eberhard Zeidler,2007-04-18 This is the first volume of a modern introduction to quantum field theory which addresses both mathematicians and physicists at levels ranging from advanced undergraduate students to professional scientists The book bridges the acknowledged gap between the different languages used by mathematicians and physicists For students of mathematics the author shows that detailed knowledge of the physical background helps to motivate the mathematical subjects and to discover interesting interrelationships between quite different mathematical topics For students of physics fairly advanced mathematics is presented which goes beyond the usual curriculum in physics

   Topological Data Analysis with Applications Gunnar Carlsson,Mikael Vejdemo-Johansson,2021-12-16 This timely text introduces topological data analysis from scratch with detailed case studies   *Geometry and Quantum Physics* H. Gausterer,H. Grosse,L. Pittner,2008-01-11 In modern mathematical physics classical together with quantum geometrical and functional analytic methods are used simultaneously Non commutative geometry in particular is becoming a useful tool in quantum field theories This book aimed at advanced students and researchers provides an introduction to these ideas Researchers will benefit particularly from the extensive survey articles on models relating to quantum gravity string theory and non commutative geometry as well as Connes approach to the standard model   **Encyclopedia of Mathematical Physics** Jean-Pierre Francoise,Gregory L. Naber,Tsou Sheung Tsun,2006-06-20 The Encyclopedia of Mathematical Physics provides a complete resource for researchers students and lecturers with an interest in mathematical physics It enables readers to access basic information on topics peripheral to their own areas to provide a repository of the core information in the area that can be used to refresh the researcher s own memory banks and aid teachers in directing students to entries relevant to their course work The Encyclopedia does contain information that has been distilled organised and presented as a complete reference tool to the user and a landmark to the body of knowledge that has accumulated in this domain It also is a stimulus for new researchers working in mathematical physics or in areas using the methods originating from work in mathematical physics by providing them with focused high quality background information Editorial Board Jean Pierre Fran oise Universit Pierre et Marie Curie Paris France Gregory L Naber Drexel University Philadelphia PA USA Tsou Sheung Tsun University of Oxford UK Also available online via ScienceDirect 2006 featuring extensive browsing searching and internal cross referencing between articles in the work plus dynamic linking to journal articles and abstract databases making navigation flexible and easy For more information pricing options and availability visit www info sciencedirect com First comprehensive interdisciplinary coverage Mathematical Physics explained to stimulate new developments and foster new applications of its methods to other fields Written by an international group of experts Contains several undergraduate level introductory articles to facilitate acquisition of new expertis Thematic index and extensive cross referencing to provide easy

access and quick search functionality Also available online with active linking **Lecture Notes On Chern-simons-witten Theory** Sen Hu,2001-06-29 This invaluable monograph has arisen in part from E Witten s lectures on topological quantum field theory in the spring of 1989 at Princeton University At that time Witten unified several important mathematical works in terms of quantum field theory most notably the Donaldson polynomial the Gromov Floer homology and the Jones polynomials In his lectures among other things Witten explained his intrinsic three dimensional construction of Jones polynomials via Chern Simons gauge theory He provided both a rigorous proof of the geometric quantization of the Chern Simons action and a very illuminating view as to how the quantization arises from quantization of the space of connections He constructed a projective flat connection for the Hilbert space bundle over the space of complex structures which becomes the Knizhik Zamolodchikov equations in a special case His construction leads to many beautiful applications such as the derivation of the skein relation and the surgery formula for knot invariant a proof of Verlinde s formula and the establishment of a connection with conformal field theory In this book Sen Hu has added material to provide some of the details left out of Witten s lectures and to update some new developments In Chapter 4 he presents a construction of knot invariant via representation of mapping class groups based on the work of Moore Seiberg and Kohno In Chapter 6 he offers an approach to constructing knot invariant from string theory and topological sigma models proposed by Witten and Vafa The localization principle is a powerful tool to build mathematical foundations for such cohomological quantum field theories In addition some highly relevant material by S S Chern and E Witten has been included as appendices for the convenience of readers 1 Complex Manifold without Potential Theory by S S Chern pp148 154 2 Geometric quantization of Chern Simons gauge theory by S Axelrod S D Pietra and E Witten 3 On holomorphic factorization of WZW and Coset models by E Witten **Physics Letters** ,1996 *Turbulence and Magnetic Fields in Astrophysics* Edith Falgarone,Thierry Passot,2003-03-11 This book contains review articles of most of the topics addressed at the conf ence on Simulations of Magnetohydrodynamic turbulence in astrophysics recent achievements and perspectives which took place from July 2 to 6 2001 at the Institut Henri Poincar e in Paris We made the choice to publish these lectures in a tutorial form so that they can be read by a broad audience As a result this book does not give an exhaustive view of all the subjects addressed during the conference The main objective of this workshop which gathered about 90 scientists from di erent elds was to present and confront recent results on the topic of t bulence in magnetized astrophysical environments A second objective was to discuss the latest generation of numerical codes such as those using adaptive mesh re nement AMR techniques During a plenary discussion at the end of the workshop discussions were held on several topics often at the heart of vivid controversies Topics included the timescale for the dissipation of magneto hydrodynamical MHD turbulence the role of boundary conditions the characteristics of imbalanced turbulence the validity of the polytropic approach to Alfv en waves support within interst lar clouds the source of turbulence inside clouds devoid of stellar activity the timescale for star formation the Alfv en Mach number of interstellar gas motions

the formation process for helical elds in the interstellar medium The impact of small upon large scales was also discussed

    <u>Progress and Visions in Quantum Theory in View of Gravity</u> Felix Finster,Domenico Giulini,Johannes Kleiner,Jürgen Tolksdorf,2020-04-09 This book focuses on a critical discussion of the status and prospects of current approaches in quantum mechanics and quantum field theory in particular concerning gravity It contains a carefully selected cross section of lectures and discussions at the seventh conference Progress and Visions in Quantum Theory in View of Gravity which took place in fall 2018 at the Max Planck Institute for Mathematics in the Sciences in Leipzig In contrast to usual proceeding volumes instead of reporting on the most recent technical results contributors were asked to discuss visions and new ideas in foundational physics in particular concerning foundations of quantum field theory A special focus has been put on the question of which physical principles of quantum field theory can be considered fundamental in view of gravity The book is mainly addressed to mathematicians and physicists who are interested in fundamental questions of mathematical physics It allows the reader to obtain a broad and up to date overview of a fascinating active research area   *Mathematical Reviews* ,2002

Equivariant Cohomology And Localization Of Path Integrals Book Review: Unveiling the Power of Words

In a world driven by information and connectivity, the energy of words has be more evident than ever. They have the capacity to inspire, provoke, and ignite change. Such may be the essence of the book **Equivariant Cohomology And Localization Of Path Integrals**, a literary masterpiece that delves deep into the significance of words and their affect our lives. Compiled by a renowned author, this captivating work takes readers on a transformative journey, unraveling the secrets and potential behind every word. In this review, we shall explore the book is key themes, examine its writing style, and analyze its overall impact on readers.

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