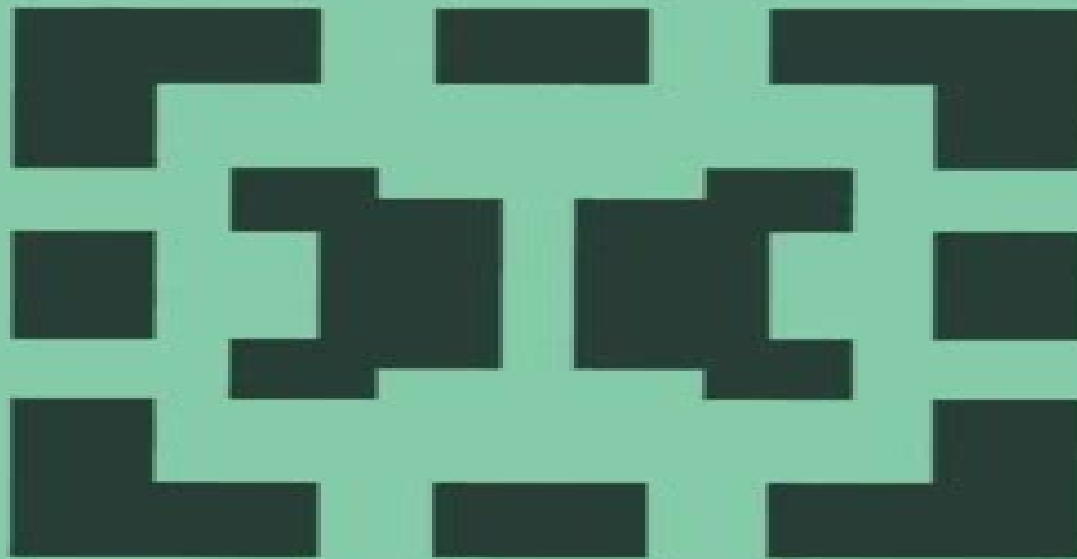


Mathematics and Its Applications

Pratul Bandyopadhyay

**Geometry, Topology
and Quantization**



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Geometry Topology And Quantization

Huangqi Zhang



Geometry Topology And Quantization:

Geometry, Topology and Quantization P. Bandyopadhyay, 1996-10-31 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 quantization. In geometric quantization we have to incorporate a hermitian line bundle to effectively generate the quantum Hamiltonian operator from a classical Hamiltonian. Klauder quantization also takes into account the role of the connection one form along with coordinate independence. In stochastic quantization as proposed by Nelson, the 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 processes 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 direction 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.

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 quantization. In geometric quantization we have to incorporate a hermitian line bundle to effectively generate the quantum Hamiltonian operator from a classical Hamiltonian. Klauder quantization also takes into account the role of the connection one form along with coordinate independence. In stochastic quantization as proposed by Nelson, the 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 processes 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 direction 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.

Loop Spaces, Characteristic Classes and Geometric Quantization Jean-Luc Brylinski, 2009-12-30 This book examines the differential geometry of manifolds, loop spaces, line bundles and groupoids and the relations of this geometry to mathematical physics. Applications presented in the book involve

anomaly line bundles on loop spaces and anomaly functionals central extensions of loop groups Kähler geometry of the space of knots and Cheeger Chern Simons secondary characteristics classes It also covers the Dirac monopole and Dirac quantization of the electrical charge

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 Nicolai 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

Geometry, Topology and Quantum Field Theory P. Bandyopadhyay, 2013-03-09 This is a monograph on geometrical and topological features which arise in quantum field theory It is well known that when a chiral fermion interacts with a gauge field we have chiral anomaly which corresponds to the fact that divergence of the axial vector current does not vanish It is observed that this is related to certain topological features associated with the fermion and leads to the realization of the topological origin of fermion number as well as the Berry phase The role of gauge fields in the quantization procedure has its implications in these topological features of a fermion and helps us to consider a massive fermion as a soliton skyrmion In this formalism chiral anomaly is found to be responsible for mass generation This has its relevance in electroweak theory where it is observed that weak

interaction gauge bosons attain mass topologically The geometrical feature of a skyrmion also helps us to realize the internal symmetry of hadrons from reflection group Finally it has been shown that noncommutative geometry where the space time manifold is taken to be $X \times M \times Z_2$ has its relevance in the description of a massive 4 fermion as a skyrmion when the discrete space is considered as the internal space and the symmetry breaking leads to chiral anomaly In chap I preliminary mathematical formulations related to the spinor structure have been discussed In chap The Geometry, Topology And Physics Of Moduli Spaces Of Higgs Bundles Richard Wentworth, Graeme Wilkin, 2018-06-28 In the 25 years since their introduction Higgs bundles have seen a surprising number of interactions within different areas of mathematics and physics There is a recent surge of interest following Ng Bau Ch u s proof of the Fundamental Lemma and the work of Kapustin and Witten on the Geometric Langlands program The program on The Geometry Topology and Physics of Moduli Spaces of Higgs Bundles was held at the Institute for Mathematical Sciences at the National University of Singapore during 2014 It hosted a number of lectures on recent topics of importance related to Higgs bundles and it is the purpose of this volume to collect these lectures in a form accessible to graduate students and young researchers interested in learning more about this field

Geometry, Topology and Operator Algebras Alexander Cardona, Andrés F. Reyes Lega, 2025-04-28 This book offers a comprehensive exploration of contemporary intersections between geometry topology and theoretical physics emphasizing their mathematical foundations and applications Originating from lectures presented by experts during two summer schools held in Villa de Leyva Colombia the book reflects the synergy between global analysis operator algebras and their role in modern physics The chapters present state of the art developments on a wide range of topics the geometry and topology of foliations affine manifolds C^* algebras and the pseudo differential calculus of boundary value problems These are enriched by applications to the theory of topological quantum matter The book is suitable for graduate students and researchers offering detailed introductions to advanced topics such as the longitudinal index theorem for foliations the geometry of the Poincaré half space in a C^* algebra and mathematical frameworks for topological matter With a balance of foundational material and novel insights it serves as both a learning resource and a reference for advanced studies at the intersection of mathematics and physics

Physics, Geometry and Topology H.C. Lee, 2012-12-06 The Banff NATO Summer School was held August 14 25 1989 at the Banff Centre Banff Alberta Canada It was a combination of two venues a summer school in the annual series of Summer School in Theoretical Physics sponsored by the Theoretical Physics Division Canadian Association of Physicists and a NATO Advanced Study Institute The Organizing Committee for the present school was composed of G Kunstatter University of Winnipeg H C Lee Chalk River Laboratories and University of Western Ontario R Kobes University of Winnipeg D I Toms University of Newcastle Upon Tyne and Y S Wu University of Utah Thanks to the group of lecturers see Contents and the timeliness of the courses given the school entitled PHYSICS GEOMETRY AND TOPOLOGY was popular from the very outset The number of applications outstripped the 90 places of accommodation reserved at the Banff Centre soon after the school

was announced As the eventual total number of participants was increased to 170 it was still necessary to turn away many deserving applicants In accordance with the spirit of the school the geometrical and topological properties in each of the wide ranging topics covered by the lectures were emphasized A recurring theme in a number of the lectures is the Yang Baxter relation which characterizes a very large class of integrable systems including many state models two dimensional conformal field theory quantum field theory and quantum gravity in 2+1 dimensions

Geometric And Algebraic Topological Methods In Quantum Mechanics Luigi Mangiarotti, Gennadi A Sardanashvily, Giovanni Giachetta, 2005-01-27

In the last decade the development of new ideas in quantum theory including geometric and deformation quantization the non Abelian Berry's geometric factor super and BRST symmetries non commutativity has called into play the geometric techniques based on the deep interplay between algebra differential geometry and topology The book aims at being a guide to advanced differential geometric and topological methods in quantum mechanics Their main peculiarity lies in the fact that geometry in quantum theory speaks mainly the algebraic language of rings modules sheaves and categories Geometry is by no means the primary scope of the book but it underlies many ideas in modern quantum physics and provides the most advanced schemes of quantization

Geometric and Topological Methods for Quantum Field Theory Sylvie Paycha, Bernardo Uribe, 2007 This volume based on lectures and short communications at a summer school in Villa de Leyva Colombia July 2005 offers an introduction to some recent developments in several active topics at the interface between geometry topology and quantum field theory It is aimed at graduate students in physics or mathematics who might want insight in the following topics covered in five survey lectures Anomalies and noncommutative geometry Deformation quantisation and Poisson algebras Topological quantum field theory and orbifolds These lectures are followed by nine articles on various topics at the borderline of mathematics and physics ranging from quasicrystals to invariant instantons through black holes and involving a number of mathematical tools borrowed from geometry algebra and analysis

Symposium on Anomalies, Geometry, Topology William A. Bardeen, Alan R. White, 1985

Hamiltonian Mechanical Systems and Geometric Quantization Mircea Puta, 2012-12-06 This volume presents various aspects of the geometry of symplectic and Poisson manifolds and applications in Hamiltonian mechanics and geometric quantization are indicated Chapter 1 presents some general facts about symplectic vector space symplectic manifolds and symplectic reduction Chapter 2 deals with the study of Hamiltonian mechanics Chapter 3 considers some standard facts concerning Lie groups and algebras which lead to the theory of momentum mappings and the Marsden Weinstein reduction Chapters 4 and 5 consider the theory and the stability of equilibrium solutions of Hamilton Poisson mechanical systems Chapters 6 and 7 are devoted to the theory of geometric quantization This leads in Chapter 8 to topics such as foliated cohomology the theory of the Dolbeault Kostant complex and their applications A discussion of the relation between geometric quantization and the Marsden Weinstein reduction is presented in Chapter 9 The final chapter considers extending the theory of geometric quantization to Poisson

manifolds via the theory of symplectic groupoids Each chapter concludes with problems and solutions many of which present significant applications and in some cases major theorems For graduate students and researchers whose interests and work involve symplectic geometry and Hamiltonian mechanics

Topology and Geometry in Physics Eike Bick, 2005-01-18

Application of the concepts and methods of topology and geometry have led to a deeper understanding of many crucial aspects in condensed matter physics cosmology gravity and particle physics This book can be considered an advanced textbook on modern applications and recent developments in these fields of physical research Written as a set of largely self contained extensive lectures the book gives an introduction to topological concepts in gauge theories BRST quantization chiral anomalies supersymmetric solitons and noncommutative geometry It will be of benefit to postgraduate students educating newcomers to the field and lecturers looking for advanced material

Grassmannians, Moduli Spaces and Vector Bundles David Ellwood, Emma Previato, 2011 This collection of cutting edge articles on vector bundles and related topics originated from a CMI workshop held in October 2006 that brought together a community indebted to the pioneering work of P E Newstead visiting the United States for the first time since the 1960s Moduli spaces of vector bundles were then in their infancy but are now as demonstrated by this volume a powerful tool in symplectic geometry number theory mathematical physics and algebraic geometry In fact the impetus for this volume was to offer a sample of the vital convergence of techniques and fundamental progress taking place in moduli spaces at the outset of the twenty first century This volume contains contributions by J E Andersen and N L Gammelgaard Hitchin s projectively flat connection and Toeplitz operators M Aprodu and G Farkas moduli spaces D Arcara and A Bertram stability in higher dimension L Jeffrey intersection cohomology J Kamnitzer Langlands program M Lieblich arithmetic aspects P E Newstead coherent systems G Pareschi and M Popa linear series on Abelian varieties and M Teixidor i Bigas bundles over reducible curves These articles do require a working knowledge of algebraic geometry symplectic geometry and functional analysis but should appeal to practitioners in a diversity of fields No specialization should be necessary to appreciate the contributions or possibly to be stimulated to work in the various directions opened by these path blazing ideas to mention a few the Langlands program stability criteria for vector bundles over surfaces and threefolds linear series over abelian varieties and Brauer groups in relation to arithmetic properties of moduli spaces

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

Quantum Topology And

Global Anomalies Randy A Baadhio, Michael P Thorman, 1996-09-03 Anomalies are ubiquitous features in quantum field theories. They can ruin the consistency of such theories and put significant restrictions on their viability especially in dimensions higher than four. Global gauge and gravitational anomalies are to date one of the scant powerful and probing tools available to physicists in the pursuit of uniqueness. This monograph is one of the very few that specializes in the study of global anomalies in quantum field theories. A discussion of various issues associated to three dimensional physics: the Chern Simons Witten theories widens the scope of this book. Topics discussed here comprise the ongoing quest for three manifolds invariant under the role of the mapping class groups in a) the detection and cancellation of global anomalies b) formulating three manifolds invariant under the geometric quantization of Chern Simons Witten theories deformation quantization study of chiral and gravitational anomalies anomalies and the Atiyah Patodi Singer Index theorem exotic spheres global gravitational anomalies in some six and ten dimensional supergravity and superstring theories with an additional case study of Witten SU(2) Global Gauge Anomalies. In addition five chapters lay out the mathematical basis for a thorough use of the topics above. One chapter focuses on the relationship between Teichmüller spaces moduli spaces and mapping class groups. Another chapter is devoted to mapping class groups and arithmetic groups. Gauge theories on Riemann surfaces are studied in well over two chapters: the first one centered on the theory of bundles and the second on connections. Many readers will find this a useful book especially theoretical physicists and mathematicians. The material presented here will be of interest to both the experts who will find complete detailed and precise descriptions of important topics of current interest in mathematical physics and to students and newcomers to the field who will appreciate the vast amount of information provided here especially on global anomalies.

The Problem of Time Edward Anderson, 2017-09-18 This book is a treatise on time and on background independence in physics. It first considers how time is conceived of in each accepted paradigm of physics: Newtonian special relativity quantum mechanics QM and general relativity GR. Substantial differences are moreover uncovered between what is meant by time in QM and in GR. These differences jointly source the Problem of Time. Nine interlinked facets which arise upon attempting concurrent treatment of the QM and GR paradigms as is required in particular for a background independent theory of quantum gravity. A sizeable proportion of current quantum gravity programs e.g. geometrodynamical and loop quantum gravity approaches to quantum GR quantum cosmology supergravity and M theory are background independent in this sense. This book's foundational topic is thus furthermore of practical relevance in the ongoing development of quantum gravity programs. This book shows moreover that eight of the nine facets of the Problem of Time already occur upon entertaining background independence in classical rather than quantum physics. By this development and interpreting shape theory as modelling background independence this book further establishes background independence as a field of study. Background independent mechanics as well as minisuperspace spatially homogeneous models of GR and perturbations thereof are used to illustrate these points. As hitherto formulated the different facets of the Problem of Time greatly interfere with each

others attempted resolutions This book explains how none the less a local resolution of the Problem of Time can be arrived at after various reconceptualizations of the facets and reformulations of their mathematical implementation Self contained appendices on mathematical methods for basic and foundational quantum gravity are included Finally this book outlines how supergravity is refreshingly different from GR as a realization of background independence and what background independence entails at the topological level and beyond

Quantization, Poisson Brackets and Beyond Theodore Voronov, 2002 The papers in this volume are based on talks given at the 2001 Manchester Meeting of the London Mathematical Society which was followed by an international workshop on Quantization Deformations and New Homological and Categorical Methods in Mathematical Physics Focus is on the topics suggested by the title quantization in its various aspects Poisson brackets and generalizations and structures beyond this including symplectic supermanifolds operads Lie groupoids and Lie bi algebroids and algebras with n ary operations The book offers accounts of up to date results as well as accessible expositions aimed at a broad reading audience of researchers in differential geometry algebraic topology and mathematical physics

Geometric and Topological Methods for Quantum Field Theory Alexander Cardona, Iván Contreras, Andrés F. Reyes-Lega, 2013-05-09 Based on lectures given at the renowned Villa de Leyva summer school this book provides a unique presentation of modern geometric methods in quantum field theory Written by experts it enables readers to enter some of the most fascinating research topics in this subject Covering a series of topics on geometry topology algebra number theory methods and their applications to quantum field theory the book covers topics such as Dirac structures holomorphic bundles and stability Feynman integrals geometric aspects of quantum field theory and the standard model spectral and Riemannian geometry and index theory This is a valuable guide for graduate students and researchers in physics and mathematics wanting to enter this interesting research field at the borderline between mathematics and physics

Geometry, Topology and Physics Mikio Nakahara, 2018-10-03 Differential geometry and topology have become essential tools for many theoretical physicists In particular they are indispensable in theoretical studies of condensed matter physics gravity and particle physics Geometry Topology and Physics Second Edition introduces the ideas and techniques of differential geometry and topology at a level suitable for postgraduate students and researchers in these fields The second edition of this popular and established text incorporates a number of changes designed to meet the needs of the reader and reflect the development of the subject The book features a considerably expanded first chapter reviewing aspects of path integral quantization and gauge theories Chapter 2 introduces the mathematical concepts of maps vector spaces and topology The following chapters focus on more elaborate concepts in geometry and topology and discuss the application of these concepts to liquid crystals superfluid helium general relativity and bosonic string theory Later chapters unify geometry and topology exploring fiber bundles characteristic classes and index theorems New to this second edition is the proof of the index theorem in terms of supersymmetric quantum mechanics The final two chapters are devoted to the most fascinating

applications of geometry and topology in contemporary physics namely the study of anomalies in gauge field theories and the analysis of Polakov's bosonic string theory from the geometrical point of view *Geometry Topology and Physics Second Edition* is an ideal introduction to differential geometry and topology for postgraduate students and researchers in theoretical and mathematical physics

The Top Books of the Year Geometry Topology And Quantization The year 2023 has witnessed a noteworthy surge in literary brilliance, with numerous captivating novels captivating the hearts of readers worldwide. Lets delve into the realm of bestselling books, exploring the captivating narratives that have enthralled audiences this year. Geometry Topology And Quantization : Colleen Hoover's "It Ends with Us" This poignant tale of love, loss, and resilience has gripped readers with its raw and emotional exploration of domestic abuse. Hoover expertly weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can prevail. Uncover the Best : Taylor Jenkins Reids "The Seven Husbands of Evelyn Hugo" This intriguing historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reids compelling storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Discover the Magic : Delia Owens "Where the Crawdads Sing" This mesmerizing coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens crafts a tale of resilience, survival, and the transformative power of nature, captivating readers with its evocative prose and mesmerizing setting. These popular novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of compelling stories waiting to be discovered. The novel begins with Richard Papen, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts. The Secret History is a masterful and thrilling novel that will keep you wondering until the very end. The novel is a cautionary tale about the dangers of obsession and the power of evil.

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
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