Geometric and Algebraic Topological Methods in Quantum Mechanics

Giovanni Giachetta, Luigi Mangiarotti & Gennadi Sardanashvily

Geometric And Algebraic Topological Methods In Quantum Mechanics

Luis L. Bonilla

Geometric And Algebraic Topological Methods In Quantum Mechanics:

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 Algebraic Topological Methods in Quantum Mechanics G. Giachetta,L. Mangiarotti,Gennadi? Aleksandrovich Sardanashvili,2005 The book collects all the advanced methods of quantization in the last decade It presents in a compact way all the necessary up to date mathematical tools to be used in studying quantum problems   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   Geometric, Algebraic and Topological Methods for Quantum Field Theory Sylvie Payche,2014 Based on lectures held at the 7th Villa de Leyva summer school this book presents an introduction to topics of current interest in the interface of geometry topology and physics It is aimed at graduate students in physics or mathematics with interests in geometric algebraic as well as topological methods and their applications to quantum field theory This volume contains the written notes corresponding to lectures given by experts in the field They cover current topics of research in a way that is suitable for graduate students of mathematics or physics interested in the recent developments and interactions between geometry topology and physics The book also contains contributions by younger participants displaying the ample range of topics treated in the school A key feature of the present volume is the provision of a pedagogical presentation of rather advanced topics in a way which is suitable for both mathematicians and physicists   Geometric and Topological Methods for Quantum Field Theory Hernan Ocampo,Eddy Pariguá´n,Eddy Pariguan,Sylvie Paycha,2014-05-14 An introduction to recent developments in several active topics at the interface between algebra geometry topology and

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for Hyperplane Arrangements Marcelo Aguiar,Swapneel Mahajan,2020-03-19 The goal of this monograph is to develop Hopf theory in a new setting which features centrally a real hyperplane arrangement The new theory is parallel to the classical theory of connected Hopf algebras and relates to it when specialized to the braid arrangement Joyal s theory of combinatorial species ideas from Tits theory of buildings and Rota s work on incidence algebras inspire and find a common expression in this theory The authors introduce notions of monoid comonoid bimonoid and Lie monoid relative to a fixed hyperplane arrangement They also construct universal bimonoids by using generalizations of the classical notions of shuffle and quasishuffle and establish the Borel Hopf Poincar Birkhoff Witt and Cartier Milnor Moore theorems in this setting This monograph opens a vast new area of research It will be of interest to students and researchers working in the areas of hyperplane arrangements semigroup theory Hopf algebras algebraic Lie theory operads and category theory **Geometric Phases in Classical and Quantum Mechanics** Dariusz Chruscinski,Andrzej Jamiolkowski,2012-12-06 Several well established geometric and topological methods are used in this work in an application to a beautiful physical phenomenon known as the geometric phase This book examines the geometric phase bringing together different physical phenomena under a unified mathematical scheme The material is presented so that graduate students and researchers in applied mathematics and physics with an understanding of classical and quantum mechanics can handle the text **Modifications of Einstein's Theory of Gravity at Large Distances** Eleftherios Papantonopoulos,2014-11-04 In the last few years modified gravity theories have been proposed as extensions of Einstein s theory of gravity Their main motivation is to explain the latest cosmological and astrophysical data on dark energy and dark matter The study of general relativity at small scales has already produced important results cf e g LNP 863 Quantum Gravity and Quantum Cosmology while its study at large scales is challenging because recent and upcoming observational results will provide important information on the validity of these modified theories In this volume various aspects of modified gravity at large scales will be discussed high curvature gravity theories general scalar tensor theories Galileon theories and their cosmological applications F R gravity theories massive new massive and topologically massive gravity Chern Simons modifications of general relativity including holographic variants and higher spin gravity theories to name but a few of the most important recent developments Edited and authored by leading researchers in the field and cast into the form of a multi author textbook at postgraduate level this volume will be of benefit to all postgraduate students and newcomers from neighboring disciplines wishing to find a comprehensive guide for their future research **Proceedings of the Summer School Geometric and Topological Methods for Quantum Field Theory** Alexander Cardona,Hernan Ocampo,Sylvie Paycha,2003 This volume offers an introduction to recent developments in several active topics of research at the interface between geometry topology and quantum field theory These include Hopf algebras underlying renormalization schemes in quantum field theory noncommutative geometry with applications to index theory on one hand and the study of aperiodic solids on the other geometry and topology of low

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structure and function The contents is based on contributions presented at the International Conference on Knots Low Dimensional Topology and Applications Knots in Hellas 2016 which was held at the International Olympic Academy in Greece in July 2016 The goal of the international conference was to promote the exchange of methods and ideas across disciplines and generations from graduate students to senior researchers and to explore fundamental research problems in the broad fields of knot theory and low dimensional topology This book will benefit all researchers who wish to take their research in new directions to learn about new tools and methods and to discover relevant and recent literature for future study

Geometric and Topological Methods for Quantum Field Theory Alexander Cardona,2013 Based on lectures given at the renowed 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 Inverse Problems and Imaging Luis L. Bonilla,2009-06-19 Nowadays we are facing numerous and important imaging problems nondestructive testing of materials monitoring of industrial processes enhancement of oil production by efficient reservoir characterization emerging developments in noninvasive imaging techniques for medical purposes computerized tomography CT magnetic resonance imaging MRI positron emission tomography PET X ray and ultrasound tomography etc In the CIME Summer School on Imaging Martina Franca Italy 2002 leading experts in mathematical techniques and applications presented broad and useful introductions for non experts and practitioners alike to many aspects of this exciting field The volume contains part of the above lectures completed and updated by additional contributions on other related topics **Geometric and Topological Methods for Quantum Field Theory** Alexander Cardona. Iván Contreras. Andrés F. Reyes-Lega,2013

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