

Mathematical Physics Studies

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Advances in Algebraic Quantum Field Theory

 Springer

Advances In Algebraic Quantum Field Theory Mathematical Physics Studies

Damien Calaque, Thomas Strobl



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Perturbative Algebraic Quantum Field Theory Kasia Rejzner, 2016-03-16 Perturbative Algebraic Quantum Field Theory pAQFT the subject of this book is a complete and mathematically rigorous treatment of perturbative quantum field theory pQFT that doesn t require the use of divergent quantities and works on a large class of Lorenzian manifolds We discuss in detail the examples of scalar fields gauge theories and the effective quantum gravity pQFT models describe a wide range of physical phenomena and have remarkable agreement with experimental results Despite this success the theory suffers from many conceptual problems pAQFT is a good candidate to solve many if not all of these conceptual problems Chapters 1 3 provide some background in mathematics and physics Chapter 4 concerns classical theory of the scalar field which is subsequently quantized in chapters 5 and 6 Chapter 7 covers gauge theory and chapter 8 discusses effective quantum gravity The book aims to be accessible to researchers and graduate students who are interested in the mathematical foundations of pQFT

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Reality and Measurement in Algebraic Quantum Theory Masanao Ozawa, Jeremy Butterfield, Hans Halvorson, Miklós Rédei, Yuichiro Kitajima, Francesco

Buscemi, 2018-11-02 This volume contains papers based on presentations at the Nagoya Winter Workshop 2015 Reality and Measurement in Algebraic Quantum Theory NWW 2015 held in Nagoya Japan in March 2015 The foundations of quantum theory have been a source of mysteries puzzles and confusions and have encouraged innovations in mathematical languages to describe analyze and delineate this wonderland Both ontological and epistemological questions about quantum reality and measurement have been placed in the center of the mysteries explored originally by Bohr Heisenberg Einstein and Schrödinger This volume describes how those traditional problems are nowadays explored from the most advanced perspectives It includes new research results in quantum information theory quantum measurement theory information thermodynamics operator algebraic and category theoretical foundations of quantum theory and the interplay between experimental and theoretical investigations on the uncertainty principle This book is suitable for a broad audience of mathematicians

theoretical and experimental physicists and philosophers of science

Progress and Visions in Quantum Theory in View of Gravity 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

Analysis, PDEs, and Applications Zhirayr Avetisyan, Michael Ruzhansky, Armen Vagharshakyan, 2025-09-19 The present volume collects extended abstracts of lectures and talks presented at the Summer School and Conference Analysis PDEs and Applications held 24 June 6 July 2024 at Yerevan State University Armenia The thematic scope of contributions includes linear and non linear partial differential equations spectral theory and

microlocal analysis harmonic and functional analysis theory of functions and approximation theory and applications in mathematical physics Each talk or lecture begins with a survey of a body of mathematical work either classic or modern leading up to recent advances This is followed by an exposition of either a specific research problem or a broader area of modern mathematical research presented by an expert in the field The volume will be of interest to not only students and young researchers but also experts looking for a crash course in the main concepts and ideas in one of the many advanced mathematical topics discussed

From Classical Field Theory to Perturbative Quantum Field Theory Michael Dütsch, 2019-03-18 This book develops a novel approach to perturbative quantum field theory starting with a perturbative formulation of classical field theory quantization is achieved by means of deformation quantization of the underlying free theory and by applying the principle that as much of the classical structure as possible should be maintained The resulting formulation of perturbative quantum field theory is a version of the Epstein Glaser renormalization that is conceptually clear mathematically rigorous and pragmatically useful for physicists The connection to traditional formulations of perturbative quantum field theory is also elaborated on and the formalism is illustrated in a wealth of examples and exercises

Mathematical Aspects of Quantum Field Theories Damien Calaque, Thomas Strobl, 2015-01-06 Despite its long history and stunning experimental successes the mathematical foundation of perturbative quantum field theory is still a subject of ongoing research This book aims at presenting some of the most recent advances in the field and at reflecting the diversity of approaches and tools invented and currently employed Both leading experts and comparative newcomers to the field present their latest findings helping readers to gain a better understanding of not only quantum but also classical field theories Though the book offers a valuable resource for mathematicians and physicists alike the focus is more on mathematical developments This volume consists of four parts The first Part covers local aspects of perturbative quantum field theory with an emphasis on the axiomatization of the algebra behind the operator product expansion The second Part highlights Chern Simons gauge theories while the third examines semi classical field theories In closing Part 4 addresses factorization homology and factorization algebras

Involutive Category Theory Donald Yau, 2020-11-30 This monograph introduces involutive categories and involutive operads featuring applications to the GNS construction and algebraic quantum field theory The author adopts an accessible approach for readers seeking an overview of involutive category theory from the basics to cutting edge applications Additionally the author's own recent advances in the area are featured never having appeared previously in the literature The opening chapters offer an introduction to basic category theory ideal for readers new to the area Chapters three through five feature previously unpublished results on coherence and strictification of involutive categories and involutive monoidal categories showcasing the author's state of the art research Chapters on coherence of involutive symmetric monoidal categories and categorical GNS construction follow The last chapter covers involutive operads and lays important coherence foundations for applications to algebraic quantum field theory With detailed

explanations and exercises throughout Involutive Category Theory is suitable for graduate seminars and independent study
Mathematicians and mathematical physicists who use involutive objects will also find this a valuable reference **Hawking**

Radiation: From Astrophysical Black Holes To Analogous Systems In Lab Francesco D Belgiorno, Sergio L Cacciatori, Daniele Faccio, 2018-07-09 The book can be a good introduction to research in the area of black hole physics Also it can serve as a source book for the established researcher in the field The book contains an extensive bibliography the contents of which are amply cited throughout the text The book well documents the historical development of the theory of Hawking radiation and related topics The book is a worthwhile addition to the physics literature on a topic of considerable interest zbMATH The aim of this book is to provide the reader with a guide to Hawking radiation through a dual approach to the problem After an introductory chapter containing some basic knowledge about black holes and quantum field theory in curved spacetime the first part of the book consists in a survey of methods for deriving and studying Hawking radiation from astrophysical black holes from the original calculation by S W Hawking to the most recent contributions involving tunneling and gravitational anomalies In the second part we introduce analogue gravity and we focus our attention to dielectric black hole systems to which the studies of the present authors are devoted The mutual interchange of knowledge between the aforementioned parts is addressed to render a more comprehensive picture of this very fascinating quantum phenomenon associated with black holes **Quantum and Non-Commutative Analysis** Huzihiro Araki, Keiichi R. Ito, Akitaka

Kishimoto, Izumi Ojima, 2013-04-17 In the past decade there has been a sudden and vigorous development in a number of research areas in mathematics and mathematical physics such as theory of operator algebras knot theory theory of manifolds infinite dimensional Lie algebras and quantum groups as a new topics etc on the side of mathematics quantum field theory and statistical mechanics on the side of mathematical physics The new development is characterized by very strong relations and interactions between different research areas which were hitherto considered as remotely related Focussing on these new developments in mathematical physics and theory of operator algebras the International Oji Seminar on Quantum Analysis was held at the Kansai Seminar House Kyoto JAPAN during June 25 29 1992 by a generous sponsorship of the Japan Society for the Promotion of Science and the Fujihara Foundation of Science as a workshop of relatively small number of about 50 invited participants This was followed by an open Symposium at RIMS described below by its organizer A Kishimoto The Oji Seminar began with two key note addresses one by V F R Jones on Spin Models in Knot Theory and von Neumann Algebras and by A Jaffe on Where Quantum Field Theory Has Led Subsequently topics such as Subfactors and Sector Theory Solvable Models of Statistical Mechanics Quantum Field Theory Quantum Groups and Renormalization Group Approach are discussed Towards the end a panel discussion on Where Should Quantum Analysis Go was held **Advances In Dynamical Systems And Quantum Physics - Proceedings Of The Conference** Sergio Albeverio, Rodolfo Figari, Enza

Orlandi, Alessandro Teta, 1995-02-23 This volume contains contributions from the meeting held in honour of G F Dell Antonio

for his sixtieth birthday The topics covered include the theory of classical and quantum dynamical systems and related mathematical disciplines such as functional and stochastic analysis operator algebras etc The contributions by leading specialists survey recent developments in Hamiltonian dynamics non commutative integration supersymmetric theories spin glass theory and other subjects in mathematical physics

Recent Advances in Field Theory P. Binétruy, G. Girardi, P. Sorba, 2016-06-03 Recent Advances in Field Theory presents the proceedings of the Fourth Annecy Meeting on Theoretical Physics held in Annecy le Vieux France on March 5-9 1990 This book presents several relevant developments on the subject including quantum algebra two dimensional quantum gravity and topological quantum theories Organized into 29 chapters this book begins with an overview of the Hamiltonian quantization of the topological Chern Simons theory This text then examines the conformal affine Liouville model Other chapters consider the global analyticity properties of functions correlated with causal kernels on de Sitter space This book discusses as well the three particle models in terms of noncommutative gauge theory namely the Peccei Quinn model the Glashow Weinberg Salam model and the standard model The final chapter deals with the development on the construction of lattice integrable models corresponding to the SU(N) coset conformal field theories This book is a valuable resource for physicists and scientists

Wormholes, Warp Drives and Energy Conditions Francisco S. N. Lobo, 2017-05-16 Top researchers in the field of gravitation present the state of the art topics outlined in this book ranging from the stability of rotating wormholes solutions supported by ghost scalar fields modified gravity applied to wormholes the study of novel semi classical and nonlinear energy conditions to the applications of quantum effects and the superluminal version of the warp drive in modified spacetime Based on Einstein's field equations this cutting edge research area explores the more far fetched theoretical outcomes of General Relativity and relates them to quantum field theory This includes quantum energy inequalities flux energy conditions and wormhole curvature and sheds light on not just the theoretical physics but also on the possible applications to warp drives and time travel This book extensively explores the physical properties and characteristics of these exotic spacetimes describing in detail the general relativistic geometries that generate closed timelike curves

Quantum Field Theory and Gravity Felix Finster, Olaf Müller, Marc Nardmann, Jürgen Tolksdorf, Eberhard Zeidler, 2012-02-08 One of the most challenging problems of contemporary theoretical physics is the mathematically rigorous construction of a theory which describes gravitation and the other fundamental physical interactions within a common framework The physical ideas which grew from attempts to develop such a theory require highly advanced mathematical methods and radically new physical concepts This book presents different approaches to a rigorous unified description of quantum fields and gravity It contains a carefully selected cross section of lively discussions which took place in autumn 2010 at the fifth conference Quantum field theory and gravity Conceptual and mathematical advances in the search for a unified framework in Regensburg Germany In the tradition of the other proceedings covering this series of conferences a special feature of this book is the exposition of a wide variety of

approaches with the intention to facilitate a comparison 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 *The Classical-Quantum Correspondence* Benjamin H. Feintzeig,2023-01-19 This Element provides an entry point for philosophical engagement with quantization and the classical limit It introduces the mathematical tools of C algebras as they are used to compare classical and quantum physics It then employs those tools to investigate philosophical issues surrounding theory change in physics It discusses examples in which quantization bears on the topics of reduction structural continuity analogical reasoning and theory construction In doing so it demonstrates that the precise mathematical tools of algebraic quantum theory can aid philosophers of science and philosophers of physics

Advances in Topological Quantum Field Theory John M. Bryden,2005-03-02 This volume is the conference proceedings of the NATO ARW during August 2001 at Kananaskis Village Canada on New Techniques in Topological Quantum Field Theory This conference brought together specialists from a number of different fields all related to Topological Quantum Field Theory The theme of this conference was to attempt to find new methods in quantum topology from the interaction with specialists in these other fields The featured articles include papers by V Vassiliev on combinatorial formulas for cohomology of spaces of Knots the computation of Ohtsuki series by N Jacoby and R Lawrence and a paper by M Asaeda and J Przytycki on the torsion conjecture for Khovanov homology by Shumakovitch Moreover there are articles on more classical topics related to manifolds and braid groups by such well known authors as D Rolfsen H Zieschang and F Cohen **Rigorous Quantum Field Theory** Anne Boutet de Monvel,Detlev Buchholz,Daniel Iagolnitzer,Ugo Moschella,2006-12-15 Jacques Bros has greatly advanced our present understanding of rigorous quantum field theory through numerous contributions this book arose from an international symposium held in honour of Bros on the occasion of his 70th birthday Key topics in this volume include Analytic structures of Quantum Field Theory QFT renormalization group methods gauge QFT stability properties and extension of the axiomatic framework QFT on models of curved spacetimes QFT on noncommutative Minkowski spacetime Nuclear Science Abstracts ,1976

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