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MATHEMATICAL QUANTUM FIELD THEORY AND RELATED TOPICS

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Volume 9

Mathematical Quantum Field Theory And Related Topics

**José Ignacio Burgos Gil, Kurusch
Ebrahimi-Fard, Herbert Gangl**



Mathematical Quantum Field Theory And Related Topics:

Mathematical Quantum Field Theory and Related Topics Joel S. Feldman, Lon M. Rosen, Université de Montréal. Centre de recherches mathématiques, Natural Sciences and Engineering Research Council Canada, 1988 Suitable for researchers and advanced graduate students in mathematical physics this book constitutes the proceedings of a conference on mathematical quantum field theory and related topics The conference was held at the Centre de Recherches Mathématiques of the Université de Montréal in September 1987

Mathematical Quantum Field Theory and Related Topics Joel S. Feldman, Lon M. Rosen, 1988 **Mathematical Quantum Field Theory and Related Topics**, 1988 *Mathematical Quantum Field Theory and Related Topics* Asao Arai, Izumi Ojima, Fumio Hiroshima, 2016 *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

Mathematical Perspectives on Theoretical Physics Nirmala Prakash, 2003 Readership Upper level undergraduates graduate students lecturers and researchers in theoretical mathematical and quantum physics

Periods in Quantum Field Theory and Arithmetic José Ignacio Burgos Gil, Kurusch Ebrahimi-Fard, Herbert Gangl, 2020-03-14 This book is the outcome of research initiatives formed during the special Research Trimester on Multiple Zeta Values Multiple Polylogarithms and Quantum Field Theory at the ICMAT Instituto de Ciencias Matemáticas Madrid in 2014 The activity was aimed at understanding and deepening recent developments where Feynman and string amplitudes on the one hand and periods and multiple zeta values on the other have been at the heart of lively and fruitful interactions between theoretical physics and number theory over the past few decades In this book the reader will find research papers as well as survey articles including open problems on the interface between number theory quantum field theory and string

theory written by leading experts in the respective fields Topics include among others elliptic periods viewed from both a mathematical and a physical standpoint further relations between periods and high energy physics including cluster algebras and renormalisation theory multiple Eisenstein series and q analogues of multiple zeta values also in connection with renormalisation double shuffle and duality relations alternative presentations of multiple zeta values using Ecalle's theory of moulds and arborification a distribution formula for generalised complex and l adic polylogarithms Galois action on knots Given its scope the book offers a valuable resource for researchers and graduate students interested in topics related to both quantum field theory in particular scattering amplitudes and number theory

Lie Algebras, Vertex Operator Algebras, and Related Topics Katrina Barron, Elizabeth Jurisich, Antun Milas, Kailash Misra, 2017-08-15 This volume contains the proceedings of the conference on Lie Algebras Vertex Operator Algebras and Related Topics celebrating the 70th birthday of James Lepowsky and Robert Wilson held from August 14-18 2015 at the University of Notre Dame Notre Dame Indiana Since their seminal work in the 1970s Lepowsky and Wilson their collaborators their students and those inspired by their work have developed an amazing body of work intertwining the fields of Lie algebras vertex algebras number theory theoretical physics quantum groups the representation theory of finite simple groups and more The papers presented here include recent results and descriptions of ongoing research initiatives representing the broad influence and deep connections brought about by the work of Lepowsky and Wilson and include a contribution by Yi Zhi Huang summarizing some major open problems in these areas in particular as they pertain to two dimensional conformal field theory

Mathematical Foundations of Quantum Field Theory Albert Schwarz, Al'bert Solomonovich Shvarts, 2020 The book is very different from other books devoted to quantum field theory both in the style of exposition and in the choice of topics Written for both mathematicians and physicists the author explains the theoretical formulation with a mixture of rigorous proofs and heuristic arguments references are given for those who are looking for more details The author is also careful to avoid ambiguous definitions and statements that can be found in some physics textbooks In terms of topics almost all other books are devoted to relativistic quantum field theory conversely this book is concentrated on the material that does not depend on the assumptions of Lorentz invariance and or locality It contains also a chapter discussing application of methods of quantum field theory to statistical physics in particular to the derivation of the diagram techniques that appear in thermo field dynamics and Keldysh formalism It is not assumed that the reader is familiar with quantum mechanics the book contains a short introduction to quantum mechanics for mathematicians and an appendix devoted to some mathematical facts used in the book Publisher's description

String-Math 2022 Ron Donagi, Adrian Langer, Piotr Sułkowski, Katrin Wendland, 2024-04-18 This is a proceedings volume from the String Math conference which took place at the University of Warsaw in 2022 This 12th String Math conference focused on several research areas actively developing these days They included generalized categorical symmetries in quantum field theory and their relation to topological phases of matter formal aspects of quantum field theory

in particular twisted holography various developments in supersymmetric gauge theories BPS counting and Donaldson Thomas invariants Other topics discussed at this conference included new advances in Gromov Witten theory curve counting and Calabi Yau manifolds Another broad topic concerned algebraic aspects of conformal field theory vertex operator algebras and quantum groups Furthermore several other recent developments were presented during the conference such as understanding the role of operator algebras in the presence of gravity derivation of gauge string duality complexity of black holes or mathematical aspects of the amplituhedron This proceedings volume contains articles summarizing 14 conference lectures devoted to the above topics

Some Mathematical Methods of Physics Gerald Goertzel, Nunzio

Tralli, 2014-06-18 Well rounded thorough treatment introduces basic concepts of mathematical physics involved in the study of linear systems with emphasis on eigenvalues eigenfunctions and Green's functions Topics include discrete and continuous systems and approximation methods 1960 edition

The Functions of Mathematical Physics Harry

Hochstadt, 2012-04-30 A modern classic this clearly written incisive textbook provides a comprehensive detailed survey of the functions of mathematical physics a field of study straddling the somewhat artificial boundary between pure and applied mathematics In the 18th and 19th centuries the theorists who devoted themselves to this field pioneers such as Gauss Euler Fourier Legendre and Bessel were searching for mathematical solutions to physical problems Today although most of the functions have practical applications in areas ranging from the quantum theoretical model of the atom to the vibrating membrane some such as those related to the theory of discontinuous groups still remain of purely mathematical interest Chapters One and Two examine orthogonal polynomials with sections on such topics as the recurrence formula the Christoffel Darboux formula the Weierstrass approximation theorem and the application of Hermite polynomials to quantum mechanics Chapter Three is devoted to the principal properties of the gamma function including asymptotic expansions and Mellin Barnes integrals Chapter Four covers hypergeometric functions including a review of linear differential equations with regular singular points and a general method for finding integral representations Chapters Five and Six are concerned with the Legendre functions and their use in the solutions of Laplace's equation in spherical coordinates as well as problems in an n dimension setting Chapter Seven deals with confluent hypergeometric functions and Chapter Eight examines at length the most important of these the Bessel functions Chapter Nine covers Hill's equations including the expansion theorems

Algebras and Modules I Idun Reiten, Sverre O. Smalø, Øyvind Solberg, Canadian Mathematical Society, 1998 Surveys developments in the representation theory of finite dimensional algebras and related topics in seven papers illustrating different techniques developed over the recent years For graduate students and researchers with a background in commutative algebra including rings modules and homological algebra Suitable as a text for an advanced graduate course No index Member prices are 31 for institutions and 23 for individuals and are available to members of the Canadian Mathematical Society Annotation copyrighted by Book News Inc Portland OR

Lectures on the Mathematical Method

in Analytical Economics Jacob T. Schwartz, 2018-11-14 An early but still useful and frequently cited contribution to the science of mathematical economics this volume is geared toward graduate students in the field Prerequisites include familiarity with the basic theory of matrices and linear transformations and with elementary calculus Author Jacob T Schwartz begins his treatment with an exploration of the Leontief input output model which forms a general framework for subsequent material An introductory treatment of price theory in the Leontief model is followed by an examination of the business cycle theory following ideas pioneered by Lloyd Metzler and John Maynard Keynes In the final section Schwartz applies the teachings of previous chapters to a critique of the general equilibrium approach devised by L on Walras as the theory of supply and demand and he synthesizes the notions of Walras and Keynes 1961 edition *Partition Functions and Automorphic Forms* Valery A. Gritsenko, Vyacheslav P. Spiridonov, 2020-07-09 This book offers an introduction to the research in several recently discovered and actively developing mathematical and mathematical physics areas It focuses on 1 Feynman integrals and modular functions 2 hyperbolic and Lorentzian Kac Moody algebras related automorphic forms and applications to quantum gravity 3 superconformal indices and elliptic hypergeometric integrals related instanton partition functions 4 moonshine its arithmetic aspects Jacobi forms elliptic genus and string theory and 5 theory and applications of the elliptic Painleve equation and aspects of Painleve equations in quantum field theories All the topics covered are related to various partition functions emerging in different supersymmetric and ordinary quantum field theories in curved space times of different $d = 2, 3, 6$ dimensions Presenting multidisciplinary methods localization Borchers products theory of special functions Cremona maps etc for treating a range of partition functions the book is intended for graduate students and young postdocs interested in the interaction between quantum field theory and mathematics related to automorphic forms representation theory number theory and geometry and mirror symmetry **Mathematics and the Physical World** Morris Kline, 1981-03-01 Kline is a first class teacher and an able writer This is an enlarging and a brilliant book Scientific American Dr Morris Kline has succeeded brilliantly in explaining the nature of much that is basic in math and how it is used in science San Francisco Chronicle Since the major branches of mathematics grew and expanded in conjunction with science the most effective way to appreciate and understand mathematics is in terms of the study of nature Unfortunately the relationship of mathematics to the study of nature is neglected in dry technique oriented textbooks and it has remained for Professor Morris Kline to describe the simultaneous growth of mathematics and the physical sciences in this remarkable book In a manner that reflects both erudition and enthusiasm the author provides a stimulating account of the development of basic mathematics from arithmetic algebra geometry and trigonometry to calculus differential equations and the non Euclidean geometries At the same time Dr Kline shows how mathematics is used in optics astronomy motion under the law of gravitation acoustics electromagnetism and other phenomena Historical and biographical materials are also included while mathematical notation has been kept to a minimum This is an excellent presentation of mathematical ideas from the time of

the Greeks to the modern era It will be of great interest to the mathematically inclined high school and college student as well as to any reader who wants to understand perhaps for the first time the true greatness of mathematical achievements

Organic Mathematics Jonathan M. Borwein, 1997 Not a collection of equations certified to have been produced with only natural fertilizer but an exploration of the emerging network and information technologies within the context of mathematics and a hard copy version of the online collection posted immediately after the workshop and updated and augmented constantly since then Among other topics the 19 papers discuss recognizing numerical constants juggling drops and descents binary cubic forms and cubic number fields and a nonlinear equation and its applications to nearest neighbor spacings for zeros of the zeta function and eigenvalues of random matrices No index Annotation copyrighted by Book News Inc Portland OR

Algebras and Modules II Idun Reiten, Sverre O. Smalø, Øyvind Solberg, Canadian Mathematical Society, 1998 The 43 research papers demonstrate the application of recent developments in the representation theory of artin algebras and related topics Among the algebras considered are tame bi serial cellular factorial hereditary Hopf Koszul non polynomial growth pre projective Termperley Lieb tilted and quasi tilted Other topics include tilting and co tilting modules and generalizations as modules exceptional sequences of modules and vector bundles homological conjectures and vector space categories The treatment assumes knowledge of non commutative algebra including rings modules and homological algebra at a graduate or professional level No index Member prices are 79 for institutions and 59 for individuals which also apply to members of the Canadian Mathematical Society Annotation copyrighted by Book News Inc Portland OR

Curvature in Mathematics and Physics Shlomo Sternberg, 2013-04-17 Expert treatment introduces semi Riemannian geometry and its principal physical application Einstein's theory of general relativity using the Cartan exterior calculus as a principal tool Prerequisites include linear algebra and advanced calculus 2012 edition

Advances in Non-Archimedean Analysis and Applications W. A. Zúñiga-Galindo, Bourama Toni, 2021-12-02 This book provides a broad interdisciplinary overview of non Archimedean analysis and its applications Featuring new techniques developed by leading experts in the field it highlights the relevance and depth of this important area of mathematics in particular its expanding reach into the physical biological social and computational sciences as well as engineering and technology In the last forty years the connections between non Archimedean mathematics and disciplines such as physics biology economics and engineering have received considerable attention Ultrametric spaces appear naturally in models where hierarchy plays a central role a phenomenon known as ultrametricity In the 80s the idea of using ultrametric spaces to describe the states of complex systems with a natural hierarchical structure emerged in the works of Fraunfelder Parisi Stein and others A central paradigm in the physics of certain complex systems for instance proteins asserts that the dynamics of such a system can be modeled as a random walk on the energy landscape of the system To construct mathematical models the energy landscape is approximated by an ultrametric space a finite rooted tree and then the dynamics of the system is modeled as a random walk

on the leaves of a finite tree In the same decade Volovich proposed using ultrametric spaces in physical models dealing with very short distances This conjecture has led to a large body of research in quantum field theory and string theory In economics the non Archimedean utility theory uses probability measures with values in ordered non Archimedean fields Ultrametric spaces are also vital in classification and clustering techniques Currently researchers are actively investigating the following areas p adic dynamical systems p adic techniques in cryptography p adic reaction diffusion equations and biological models p adic models in geophysics stochastic processes in ultrametric spaces applications of ultrametric spaces in data processing and more This contributed volume gathers the latest theoretical developments as well as state of the art applications of non Archimedean analysis It covers non Archimedean and non commutative geometry renormalization p adic quantum field theory and p adic quantum mechanics as well as p adic string theory and p adic dynamics Further topics include ultrametric bioinformation cryptography and bioinformatics in p adic settings non Archimedean spacetime gravity and cosmology p adic methods in spin glasses and non Archimedean analysis of mental spaces By doing so it highlights new avenues of research in the mathematical sciences biosciences and computational sciences

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