

# CONTEMPORARY MATHEMATICS

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## Mathematical Aspects of Classical Field Theory



American Mathematical Society

# Mathematical Aspects Of Classical Field Theory

**D. H. Tchrakian**



## **Mathematical Aspects Of Classical Field Theory:**

Mathematical Aspects of Classical Field Theory Mark J. Gotay, Jerrold E. Marsden, Vincent Moncrief, 1992 Classical field theory has undergone a renaissance in recent years Symplectic techniques have yielded deep insights into its foundations as has an improved understanding of the variational calculus Further impetus for the study of classical fields has come from other areas such as integrable systems Poisson geometry global analysis and quantum theory This book contains the proceedings of the AMS IMS SIAM Joint Summer Research Conference on Mathematical Aspects of Classical Field Theory held in July 1991 at the University of Washington at Seattle The conference brought together researchers in many of the main areas of classical field theory to present the latest ideas and results The volume contains thirty refereed papers both survey and research articles and is designed to reflect the state of the art as well as chart the future course of the subject The topics fall into four major categories global analysis and relativity cosmic censorship initial value problem quantum gravity geometric methods symplectic and Poisson structures momentum mappings Dirac constraint theory BRST theory and the calculus of variations the variational bicomplex higher order theories Also included are related topics with a classical basis such as geometric quantization integrable systems symmetries deformation theory and geometric mechanics

**Mathematical aspects of classical field theory** ,1992 *Mathematical Aspects of Classical Field Theory* Mark J. Gotay, 1992 *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 **Mathematical Aspects of Quantum Field Theory** Edson de

Faria, Wellington de Melo, 2010-08-12 Over the last century quantum field theory has made a significant impact on the formulation and solution of mathematical problems and inspired powerful advances in pure mathematics However most accounts are written by physicists and mathematicians struggle to find clear definitions and statements of the concepts involved This graduate level introduction presents the basic ideas and tools from quantum field theory to a mathematical audience Topics include classical and quantum mechanics classical field theory quantization of classical fields perturbative quantum field theory renormalization and the standard model The material is also accessible to physicists seeking a better

understanding of the mathematical background providing the necessary tools from differential geometry on such topics as connections and gauge fields vector and spinor bundles symmetries and group representations Mathematical Aspects of Classical and Celestial Mechanics Vladimir I. Arnold, Valery V. Kozlov, Anatoly I. Neishtadt, 2007-07-05 The main purpose of the book is to acquaint mathematicians physicists and engineers with classical mechanics as a whole in both its traditional and its contemporary aspects As such it describes the fundamental principles problems and methods of classical mechanics with the emphasis firmly laid on the working apparatus rather than the physical foundations or applications Chapters cover the n body problem symmetry groups of mechanical systems and the corresponding conservation laws the problem of the integrability of the equations of motion the theory of oscillations and perturbation theory *Mathematical Aspects of Quantum Field Theory* Edson de Faria, Welington de Melo, 2010 Over the last century quantum field theory has made a significant impact on the formulation and solution of mathematical problems and inspired powerful advances in pure mathematics However most accounts are written by physicists and mathematicians struggle to find clear definitions and statements of the concepts involved This graduate level introduction presents the basic ideas and tools from quantum field theory to a mathematical audience Topics include classical and quantum mechanics classical field theory quantization of classical fields perturbative quantum field theory renormalization and the standard model The material is also accessible to physicists seeking a better understanding of the mathematical background providing the necessary tools from differential geometry on such topics as connections and gauge fields vector and spinor bundles symmetries and group representations

**Quantization, Classical and Quantum Field Theory and Theta Functions** Andrej Tyurin, 2003 This book is written by a well known expert in classical algebraic geometry Tyurin's research was specifically in explicit computations to vector bundles on algebraic varieties This is the only available monograph written from his unique viewpoint Ordinary abelian theta functions describe properties of moduli spaces of one dimensional vector bundles on algebraic curves Non abelian theta functions which are the main topic of this book play a similar role in the study of higher dimensional vector bundles The book presents various aspects of the theory of non abelian theta functions and the moduli spaces of vector bundles including their applications to problems of quantization and to classical and quantum conformal field theories The book is an important source of information for specialists in algebraic geometry and its applications to mathematical aspects of quantum field theory *Non-perturbative Quantum Field Theory: Mathematical Aspects And Applications* Jurg Frohlich, 1992-04-29

Compiled to illustrate the recent history of Quantum Field Theory and its trends this collection of selected reprints by J rg Fr hlich a leading theoretician in the field is a comprehensive guide of the more mathematical aspects of the subject Results and methods of the past fifteen years are reviewed The analytical methods employed are non perturbative and for the larger part mathematically rigorous Most articles are review articles surveying certain important developments in quantum field theory and guiding the reader towards the original literature The volume begins with a comprehensive introduction by J rg Fr hlich

The theory of phase transitions and continuous symmetry breaking is reviewed in the first section The second section discusses the non perturbative quantization of topological solitons The third section is devoted to the study of gauge fields A paper on the triviality of  $\phi^4$  theory in four and more dimensions is found in the fourth section while the fifth contains two articles on random geometry The sixth and final part addresses topics in low dimensional quantum field theory including braid statistics two dimensional conformal field theory and an application to condensed matter theory

**Topics In Quantum Field Theory: Modern Methods In Fundamental Physics** D H Tchrakian,1995-12-30 This book constitutes the proceedings of a meeting which brought together contributors from the four European networks in the area of the theory of fundamental interactions While each of these networks overlaps strongly with all the others this coming together gives the proceedings a greater than usual breadth of subjects nevertheless The wide range of topics in quantum field theory covered includes Hamiltonian and semiclassical methods critical phenomena and various aspects of classical and quantum gravity including also a study in the detection of gravitational radiation This together with the leading item on the recent history of the subject gives an overall perspective of the many new research directions in this area

**A Course in Mathematical Physics 2** Walter Thirring,2014-07-08 In the past decade the language and methods of modern differential geometry have been increasingly used in theoretical physics What seemed extravagant when this book first appeared 12 years ago as lecture notes is now a commonplace This fact has strengthened my belief that today students of theoretical physics have to learn that language and the sooner the better After all they will be the professors of the twenty first century and it would be absurd if they were to teach then the mathematics of the nineteenth century Thus for this new edition I did not change the mathematical language Apart from correcting some mistakes I have only added a section on gauge theories In the last decade it has become evident that these theories describe fundamental interactions and on the classical level their structure is sufficiently clear to qualify them for the minimum amount of knowledge required by a theoretician It is with much regret that I had to refrain from incorporating the interesting developments in Kaluza Klein theories and in cosmology but I felt bound to my promise not to burden the students with theoretical speculations for which there is no experimental evidence I am indebted to many people for suggestions concerning this volume In particular P Aichelburg H Rumpf and H Urbantke have contributed generously to corrections and improvements Finally I would like to thank Dr 1 Dahl Jensen for redoing some of the figures on the computer

*Topics in Quantum Field Theory* D. H. Tchrakian,1995 This book constitutes the proceedings of a meeting which brought together contributors from the four European networks in the area of the theory of fundamental interactions While each of these networks overlaps strongly with all the others this coming together gives the proceedings a greater than usual breadth of subjects nevertheless The wide range of topics in quantum field theory covered includes Hamiltonian and semiclassical methods critical phenomena and various aspects of classical and quantum gravity including also a study in the detection of gravitational radiation This together with the leading item on the recent history of

the subject gives an overall perspective of the many new research directions in this area

**New Developments in Differential Geometry** L. Tamásy, J. Szenthe, 2012-12-06 Proceedings of the Colloquium on Differential Geometry Debrecen Hungary July 26 30 1994

**Towards the Mathematics of Quantum Field Theory** Frédéric Paugam, 2014-02-20 This ambitious and original book sets out to introduce to mathematicians even including graduate students the mathematical methods of theoretical and experimental quantum field theory with an emphasis on coordinate free presentations of the mathematical objects in use This in turn promotes the interaction between mathematicians and physicists by supplying a common and flexible language for the good of both communities though mathematicians are the primary target This reference work provides a coherent and complete mathematical toolbox for classical and quantum field theory based on categorical and homotopical methods representing an original contribution to the literature The first part of the book introduces the mathematical methods needed to work with the physicists spaces of fields including parameterized and functional differential geometry functorial analysis and the homotopical geometric theory of non linear partial differential equations with applications to general gauge theories The second part presents a large family of examples of classical field theories both from experimental and theoretical physics while the third part provides an introduction to quantum field theory presents various renormalization methods and discusses the quantization of factorization algebras

*Constraint Theory And Quantization Methods: From Relativistic Particles To Field Theory And General Relativity* Filippo Colomo, Luca Lusanna, Giuseppe Marmo, 1994-05-27 This second workshop on constraint theory aims at reviewing the developments that have taken place in the theory of singular Lagrangians and Dirac Bergmann Hamiltonian constraints as well as their quantization Since this theory lies behind all special and general relativistic systems the topics covered here naturally range from mathematical physics to relativistic system particles strings and fields and further to general relativity The variety of topics discussed makes this an important interesting and informative book

*Notices of the American Mathematical Society* American Mathematical Society, 1992

**Mathematical Reviews**, 2003

Lectures on Field Theory and Topology Daniel S. Freed, 2019-08-23 These lectures recount an application of stable homotopy theory to a concrete problem in low energy physics the classification of special phases of matter While the joint work of the author and Michael Hopkins is a focal point a general geometric frame of reference on quantum field theory is emphasized Early lectures describe the geometric axiom systems introduced by Graeme Segal and Michael Atiyah in the late 1980s as well as subsequent extensions This material provides an entry point for mathematicians to delve into quantum field theory Classification theorems in low dimensions are proved to illustrate the framework The later lectures turn to more specialized topics in field theory including the relationship between invertible field theories and stable homotopy theory extended unitarity anomalies and relativistic free fermion systems The accompanying mathematical explanations touch upon higher category theory duals to the sphere spectrum equivariant spectra differential cohomology and Dirac operators The outcome of computations made using the Adams

spectral sequence is presented and compared to results in the condensed matter literature obtained by very different means. The general perspectives and specific applications fuse into a compelling story at the interface of contemporary mathematics and theoretical physics. *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. **Il Nuovo cimento della Società italiana di fisica**, 1997.

## **Mathematical Aspects Of Classical Field Theory** Book Review: Unveiling the Magic of Language

In an electronic era where connections and knowledge reign supreme, the enchanting power of language has become much more apparent than ever. Its ability to stir emotions, provoke thought, and instigate transformation is actually remarkable. This extraordinary book, aptly titled "**Mathematical Aspects Of Classical Field Theory**," published by a highly acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound effect on our existence. Throughout this critique, we will delve into the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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