Mathematical Aspects
of Classical Field Theory

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V. Babelon,P. Cartier,Y. Kosmann-Schwarzbach

Mathematical Aspects Of Classical Field Theory:

Mathematical aspects of classical field theory ,1992   **Mathematical Aspects of Classical Field Theory** Mark J. Gotay,1992   *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 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,Welington 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   **Integrable Systems** V. Babelon,P. Cartier,Y. Kosmann-Schwarzbach,2013-03-14 This book constitutes the proceedings of the International Conference on Integrable Systems in memory of J L Verdier It was held on July 1 5 1991 at the Centre International de Recherches Mathematiques C I R M at Luminy near Marseille France This collection of articles covering many aspects of the theory of integrable Hamiltonian systems both finite and infinite dimensional with an emphasis on the algebro geometric meth ods is published here as a tribute to Verdier who had planned this confer ence before his death in 1989 and whose active involvement with this topic brought integrable systems to the fore as a subject for active research in France The death of Verdier and his wife on August 25 1989 in a car accident near their country house was a shock to all of us who were acquainted with them and was very deeply felt in the mathematics community We knew of no better way to honor Verdier s memory than to proceed with both the School on Integrable Systems at the C I M P A Centre International de Mathematiques Pures et Appliquees in Nice and the Conference on the same theme that was to follow it as he himself had planned them   **Direct and Inverse Methods in Nonlinear Evolution Equations** Robert M. Conte,Franco Magri,Micheline Musette,Junkichi Satsuma,Pavel Winternitz,2003-10-21 Many physical phenomena are described by nonlinear evolution equation Those that are integrable provide various mathematical methods presented by experts in this tutorial book to find special analytic solutions to both integrable and partially integrable equations The direct method to build solutions includes the analysis of singularities la Painlev Lie symmetries leaving the equation invariant extension of the Hirota method construction of the nonlinear superposition formula The main inverse method described here relies on the bi hamiltonian structure of integrable equations The book also presents some extension to equations with discrete independent and dependent variables The different chapters face from different points of view the theory of exact solutions and of the complete integrability of nonlinear evolution equations Several examples and applications to concrete problems allow the reader to experience directly the power of the different machineries involved   Direct and Projective Limits of Geometric Banach Structures. Patrick Cabau,Fernand Pelletier,2023-10-06 This book describes in detail the basic context of the Banach setting and the most important Lie structures found in finite dimension The authors expose these concepts in the convenient

framework which is a common context for projective and direct limits of Banach structures The book presents sufficient conditions under which these structures exist by passing to such limits In fact such limits appear naturally in many mathematical and physical domains Many examples in various fields illustrate the different concepts introduced Many geometric structures existing in the Banach setting are stable by passing to projective and direct limits with adequate conditions The convenient framework is used as a common context for such types of limits The contents of this book can be considered as an introduction to differential geometry in infinite dimension but also a way for new research topics This book allows the intended audience to understand the extension to the Banach framework of various topics in finite dimensional differential geometry and moreover the properties preserved by passing to projective and direct limits of such structures as a tool in different fields of research **Selected Topics in the Geometrical Study of Differential Equations** Niky Kamran,2002-01-01 The geometrical study of differential equations has a long and distinguished history dating back to the classical investigations of Sophus Lie Gaston Darboux and Elie Cartan Currently these ideas occupy a central position in several areas of pure and applied mathematics In this book the author gives an overview of a number of significant ideas and results developed over the past decade in the geometrical study of differential equations Topics covered in the book include symmetries of differential equations and variational problems the variational bi complex and conservation laws geom

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 *Geometry of Constrained Dynamical Systems* John M. Charap,1995-01-05 A lively varied and topical presentation of this branch of theoretical physics

Geometric and Algebraic Structures in Differential Equations P.H. Kersten,I.S. Krasil'shchik,2012-12-06 The geometrical theory of nonlinear differential equations originates from classical works by S Lie and A B cklund It obtained a new impulse in the sixties when the complete integrability of the Korteweg de Vries equation was found and it became clear that some basic and quite general geometrical and algebraic structures govern this property of integrability Nowadays the geometrical and algebraic approach to partial differential equations constitutes a special branch of modern mathematics In 1993 a workshop on algebra and geometry of differential equations took place at the University of Twente The Netherlands where the state of the art of the main problems was fixed This book contains a collection of invited lectures presented at this workshop The material presented is of interest to those who work in pure and applied mathematics and especially in

mathematical physics **Il Nuovo cimento della Società italiana di fisica** ,1997 *The Einstein Equations and the Large Scale Behavior of Gravitational Fields* Piotr T. Chrusciel,Helmut Friedrich,2012-12-06 The book presents state of the art results on the analysis of the Einstein equations and the large scale structure of their solutions It combines in a unique way introductory chapters and surveys of various aspects of the analysis of the Einstein equations in the large It discusses applications of the Einstein equations in geometrical studies and the physical interpretation of their solutions Open problems concerning analytical and numerical aspects of the Einstein equations are pointed out Background material on techniques in PDE theory differential geometry and causal theory is provided **A Course in Mathematical Physics 2** Walter Thirring,2014-07-08 In the past decade the language and methods ofmodern 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 Afterall they willbe the professors ofthe 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 suffi cientlyclear to qualify them for the minimum amount ofknowledge required by a theoretician It is with much regret that I had to refrain from in corporating 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 **Representation Theory, Mathematical Physics, and Integrable Systems** Anton Alekseev,Edward Frenkel,Marc Rosso,Ben Webster,Milen Yakimov,2022-02-05 Over the course of his distinguished career Nicolai Reshetikhin has made a number of groundbreaking contributions in several fields including representation theory integrable systems and topology The chapters in this volume compiled on the occasion of his 60th birthday are written by distinguished mathematicians and physicists and pay tribute to his many significant and lasting achievements Covering the latest developments at the interface of noncommutative algebra differential and algebraic geometry and perspectives arising from physics this volume explores topics such as the development of new and powerful knot invariants new perspectives on enumerative geometry and string theory and the introduction of cluster algebra and categorification techniques into a broad range of areas Chapters will also cover novel applications of representation theory to random matrix theory exactly solvable models in statistical mechanics and integrable hierarchies The recent progress in the mathematical and physicals aspects of deformation quantization and tensor categories is also addressed Representation Theory Mathematical Physics and Integrable Systems will be of interest to

a wide audience of mathematicians interested in these areas and the connections between them ranging from graduate students to junior mid career and senior researchers   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

    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 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

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