

Martin Schottenloher

LECTURE NOTES IN PHYSICS 759

A Mathematical Introduction to Conformal Field Theory

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A Mathematical Introduction To Conformal Field Theory

Lecture Notes In Physics

Edoardo Lauria



A Mathematical Introduction To Conformal Field Theory Lecture Notes In Physics:

A Mathematical Introduction to Conformal Field Theory Martin Schottenloher, 2008-09-26 The first part of this book gives a self contained and mathematically rigorous exposition of classical conformal symmetry in n dimensions and its quantization in two dimensions The second part surveys some more advanced topics of conformal field theory

A Mathematical Introduction to Conformal Field Theory Martin Schottenloher, 2008-09-15 Part I gives a detailed self contained and mathematically rigorous exposition of classical conformal symmetry in n dimensions and its quantization in two dimensions The conformal groups are determined and the appearance of the Virasoro algebra in the context of the quantization of two dimensional conformal symmetry is explained via the classification of central extensions of Lie algebras and groups Part II surveys more advanced topics of conformal field theory such as the representation theory of the Virasoro algebra conformal symmetry within string theory an axiomatic approach to Euclidean conformally covariant quantum field theory and a mathematical interpretation of the Verlinde formula in the context of moduli spaces of holomorphic vector bundles on a Riemann surface

Introduction to Conformal Field Theory Ralph Blumenhagen, Erik Plauschinn, 2009-07-11 Based on class tested notes this text offers an introduction to Conformal Field Theory with a special emphasis on computational techniques of relevance for String Theory It introduces Conformal Field Theory at a basic level Kac Moody algebras one loop partition functions Superconformal Field Theories Gepner Models and Boundary Conformal Field Theory Eventually the concept of orientifold constructions is explained in detail for the example of the bosonic string In providing many detailed CFT calculations this book is ideal for students and scientists intending to become acquainted with CFT techniques relevant for string theory but also for students and non specialists from related fields

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

Boundary Conformal Field Theory and the Worldsheet Approach to D-Branes Andreas Recknagel, Volker Schomerus, 2013-11-28 Boundary conformal field theory is concerned with a class of two dimensional quantum field theories which display a rich mathematical structure and have many applications ranging from

string theory to condensed matter physics In particular the framework allows discussion of strings and branes directly at the quantum level Written by internationally renowned experts this comprehensive introduction to boundary conformal field theory reaches from theoretical foundations to recent developments with an emphasis on the algebraic treatment of string backgrounds Topics covered include basic concepts in conformal field theory with and without boundaries the mathematical description of strings and D branes and the geometry of strongly curved spacetime The book offers insights into string geometry that go beyond classical notions Describing the theory from basic concepts and providing numerous worked examples from conformal field theory and string theory this reference is of interest to graduate students and researchers in physics and mathematics

Lattice Models and Conformal Field Theory Franck Gabriel, Clément Hongler, Francesco Spadaro, 2024-08-23 This book introduces the mathematical ideas connecting Statistical Mechanics and Conformal Field Theory CFT Building advanced structures on top of more elementary ones the authors map out a well posed road from simple lattice models to CFTs Structured in two parts the book begins by exploring several two dimensional lattice models their phase transitions and their conjectural connection with CFT Through these lattice models and their local fields the fundamental ideas and results of two dimensional CFTs emerge with a special emphasis on the Unitary Minimal Models of CFT Delving into the delicate ideas that lead to the classification of these CFTs the authors discuss the assumptions on the lattice models whose scaling limits are described by CFTs This produces a probabilistic rather than an axiomatic or algebraic definition of CFTs Suitable for graduate students and researchers in mathematics and physics *Lattice Models and Conformal Field Theory* introduces the ideas at the core of Statistical Field Theory Assuming only undergraduate probability and complex analysis the authors carefully motivate every argument and assumption made Concrete examples and exercises allow readers to check their progress throughout

Conformal Invariance: an Introduction to Loops, Interfaces and Stochastic Loewner Evolution Malte Henkel, Dragi Karevski, 2012-04-04 Conformal invariance has been a spectacularly successful tool in advancing our understanding of the two dimensional phase transitions found in classical systems at equilibrium This volume sharpens our picture of the applications of conformal invariance introducing non local observables such as loops and interfaces before explaining how they arise in specific physical contexts It then shows how to use conformal invariance to determine their properties Moving on to cover key conceptual developments in conformal invariance the book devotes much of its space to stochastic Loewner evolution SLE detailing SLE s conceptual foundations as well as extensive numerical tests The chapters then elucidate SLE s use in geometric phase transitions such as percolation or polymer systems paying particular attention to surface effects As clear and accessible as it is authoritative this publication is as suitable for non specialist readers and graduate students alike

Introduction to Lie Algebras J. I. Hall, 2025-01-03 Being both a beautiful theory and a valuable tool Lie algebras form a very important area of mathematics This modern introduction targets entry level graduate students It might also be of interest to those wanting to refresh their knowledge of the area and

be introduced to newer material Infinite dimensional algebras are treated extensively along with the finite dimensional ones After some motivation the text gives a detailed and concise treatment of the Killing Cartan classification of finite dimensional semisimple algebras over algebraically closed fields of characteristic 0 Important constructions such as Chevalley bases follow The second half of the book serves as a broad introduction to algebras of arbitrary dimension including Kac Moody KM loop and affine KM algebras Finite dimensional semisimple algebras are viewed as KM algebras of finite dimension their representation and character theory developed in terms of integrable representations The text also covers triangular decomposition after Moody and Pianzola and the BGG category $\mathcal{O}$ A lengthy chapter discusses the Virasoro algebra and its representations Several applications to physics are touched on via differential equations Lie groups superalgebras and vertex operator algebras Each chapter concludes with a problem section and a section on context and history There is an extensive bibliography and appendices present some algebraic results used in the book

Conformal Field Theory

Philippe Francesco, Pierre Mathieu, David Senechal, 2012-12-06 Filling an important gap in the literature this comprehensive text develops conformal field theory from first principles The treatment is self contained pedagogical and exhaustive and includes a great deal of background material on quantum field theory statistical mechanics Lie algebras and affine Lie algebras The many exercises with a wide spectrum of difficulty and subjects complement and in many cases extend the text The text is thus not only an excellent tool for classroom teaching but also for individual study Intended primarily for graduate students and researchers in theoretical high energy physics mathematical physics condensed matter theory statistical physics the book will also be of interest in other areas of theoretical physics and mathematics It will prepare the reader for original research in this very active field of theoretical and mathematical physics

Complex Analysis and Dynamical

Systems Mark Agranovsky, Anatoly Golberg, Fiana Jacobzon, David Shoikhet, Lawrence Zalcman, 2018-01-31 This book focuses on developments in complex dynamical systems and geometric function theory over the past decade showing strong links with other areas of mathematics and the natural sciences Traditional methods and approaches surface in physics and in the life and engineering sciences with increasing frequency the Schramm Loewner evolution Laplacian growth and quadratic differentials are just a few typical examples This book provides a representative overview of these processes and collects open problems in the various areas while at the same time showing where and how each particular topic evolves This volume is dedicated to the memory of Alexander Vasiliev

Harmonic and Complex Analysis and its Applications Alexander

Vasil'ev, 2013-11-09 This volume highlights the main results of the research performed within the network Harmonic and Complex Analysis and its Applications HCAA which was a five year 2007 2012 European Science Foundation Programme intended to explore and to strengthen the bridge between two scientific communities analysts with broad backgrounds in complex and harmonic analysis and mathematical physics and specialists in physics and applied sciences It coordinated actions for advancing harmonic and complex analysis and for expanding its application to challenging scientific problems

Particular topics considered by this Programme included conformal and quasiconformal mappings potential theory Banach spaces of analytic functions and their applications to the problems of fluid mechanics conformal field theory Hamiltonian and Lagrangian mechanics and signal processing This book is a collection of surveys written as a result of activities of the Programme and will be interesting and useful for professionals and novices in analysis and mathematical physics as well as for graduate students Browsing the volume the reader will undoubtedly notice that as the scope of the Programme is rather broad there are many interrelations between the various contributions which can be regarded as different facets of a common theme

Advances In Algebra And Combinatorics - Proceedings Of The Second International Congress In Algebra And Combinatorics Kar Ping Shum, Efim Zelmanov, Shangzhi Li, Jiping Zhang, 2008-06-17 This volume is a compilation of lectures on algebras and combinatorics presented at the Second International Congress in Algebra and Combinatorics It reports on not only new results but also on open problems in the field The proceedings volume is useful for graduate students and researchers in algebras and combinatorics Contributors include eminent figures such as V Artamonov L Bokut J Fountain P Hilton M Jambu P Kolesnikov Li Wei and K Ueno

String Field Theory Harold Erbin, 2021-03-26 This textbook provides an introduction to string field theory SFT String theory is usually formulated in the worldsheet formalism which describes a single string first quantization While this approach is intuitive and could be pushed far due to the exceptional properties of two dimensional theories it becomes cumbersome for some questions or even fails at a more fundamental level These motivations have led to the development of SFT a description of string theory using the field theory formalism second quantization As a field theory SFT provides a rigorous and constructive formulation of string theory The main focus of the book is the construction of the closed bosonic SFT The accent is put on providing the reader with the foundations conceptual understanding and intuition of what SFT is After reading this book the reader is able to study the applications from the literature The book is organized in two parts The first part reviews the notions of the worldsheet theory that are necessary to build SFT worldsheet path integral CFT and BRST quantization The second part starts by introducing general concepts of SFT from the BRST quantization Then it introduces off shell string amplitudes before providing a Feynman diagrams interpretation from which the building blocks of SFT are extracted After constructing the closed SFT the author outlines the proofs of several important properties such as background independence unitarity and crossing symmetry Finally the generalization to the superstring is also discussed

Vertex Operator Algebras in Mathematics and Physics Stephen Berman, Vertex operator algebras are a class of algebras underlying a number of recent constructions results and themes in mathematics These algebras can be understood as string theoretic analogues of Lie algebras and of commutative associative algebras They play fundamental roles in some of the most active research areas in mathematics and physics Much recent progress in both physics and mathematics has benefited from cross pollination between the physical and mathematical points of view This book presents the proceedings from the workshop Vertex Operator Algebras in Mathematics and Physics held at

The Fields Institute It consists of papers based on many of the talks given at the conference by leading experts in the algebraic geometric and physical aspects of vertex operator algebra theory The book is suitable for graduate students and research mathematicians interested in the major themes and important developments on the frontier of research in vertex operator algebra theory and its applications in mathematics and physics

Introduction to String Theory Sergio Cecotti, 2023-10-06 Graduate students typically enter into courses on string theory having little to no familiarity with the mathematical background so crucial to the discipline As such this book based on lecture notes edited and expanded from the graduate course taught by the author at SISSA and BIMS places particular emphasis on said mathematical background The target audience for the book includes students of both theoretical physics and mathematics This explains the book's strange style on the one hand it is highly didactic and explicit with a host of examples for the physicists but in addition there are also almost 100 separate technical boxes appendices and starred sections in which matters discussed in the main text are put into a broader mathematical perspective while deeper and more rigorous points of view particularly those from the modern era are presented The boxes also serve to further shore up the reader's understanding of the underlying math In writing this book the author's goal was not to achieve any sort of definitive conciseness opting instead for clarity and completeness To this end several arguments are presented more than once from different viewpoints and in varying contexts

A Short Introduction to String Theory Thomas Mohaupt, 2022-04-07 A concise and pedagogical introduction to string theory for graduate students featuring examples and homework problems

String-Math 2012 Ron Donagi, Sheldon Katz, Albrecht Klemm, David R. Morrison, 2015-09-30 This volume contains the proceedings of the conference String Math 2012 which was held July 16-21, 2012 at the Hausdorff Center for Mathematics Universität Bonn This was the second in a series of annual large meetings devoted to the interface of mathematics and string theory These meetings have rapidly become the flagship conferences in the field Topics include super Riemann surfaces and their super moduli generalized moonshine and K3 surfaces the latest developments in supersymmetric and topological field theory localization techniques applications to knot theory and many more The contributors include many leaders in the field such as Sergio Cecotti Matthias Gaberdiel Rahul Pandharipande Albert Schwarz Anne Taormina Johannes Walcher Katrin Wendland and Edward Witten This book will be essential reading for researchers and students in this area and for all mathematicians and string theorists who want to update themselves on developments in the math-string interface

Points, Lines, and Surfaces at Criticality Edoardo Lauria, 2019-07-30 This thesis offers a fascinating journey through various non-perturbative aspects of Conformal Theories in particular focusing on the Conformal Bootstrap Programme and its extensions to theories with various degrees of symmetry Because of the preeminent role of Conformal Theories in Nature as well as the great generality of the results here obtained this analysis directly applies to many different areas of research The content of this thesis is certainly relevant for the physics community as a whole and this relevance is well motivated and discussed along the various chapters of this work The work is

self contained and starts with an original introduction to conformal theories defects in such theories and how they lead to constraints on data and an extension of the bootstrap programme This situation is often realized by critical systems with impurities topological insulators or in the high energy context by Wilson and t Hooft operators The thesis continues with original research results of the author including supersymmetric extensions These results may be relevant non only in the high energy physics context where supersymmetry is required for the theory to be consistent but also for condensed matter systems that enjoy supersymmetry emergence at long distances

Lectures on Algebraic Quantum Field Theory and Operator Algebras Bert Schroer,2001 Applied Holography Matteo Baggioli,2019-11-30 This primer is a collection of notes based on lectures that were originally given at IIT Madras India and at IFT Madrid Spain It is a concise and pragmatic course on applied holography focusing on the basic analytic and numerical techniques involved The presented lectures are not intended to provide all the fundamental theoretical background which can be found in the available literature but they concentrate on concrete applications of AdS CFT to hydrodynamics quantum chromodynamics and condensed matter The idea is to accompany the reader step by step through the various benchmark examples with a classmate attitude providing details for the computations and open source numerical codes in Mathematica and sharing simple tricks and warnings collected during the author s research experience At the end of this path the reader will be in possess of all the fundamental skills and tools to learn by him herself more advanced techniques and to produce independent and novel research in the field

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