

Superstring Theory Volume 2 Loop Amplitudes Anomalies And Phenomenology

Thermal Field Theory Michel Le Bellac 2000-07-03 Now in paperback, this text introduces the theoretical framework for describing the quark-gluon plasma, an important new state of matter. The first part of this book is a self-contained introduction to relativistic thermal field theory. Topics include the path integral approach, the real and the imaginary time formalisms, fermion fields and gauge fields at finite temperature. Useful techniques such as the evaluation of frequency sums or the use of cutting rules are illustrated on various examples. The second part of the book is devoted to recent developments, giving a detailed account of collective excitations (bosonic and fermionic), and showing how they give rise to energy scales which imply a reorganization of perturbation theory. The relation with kinetic theory is also explained. Applications to processes which occur in heavy ion collisions and in astrophysics are worked out in detail. Each chapter ends with exercises and a guide to the literature.

Superstring theory. Vol. 2, Loop amplitudes, anomalies and phenomenology Michael B. Green 1987

Advances in Theoretical and Mathematical Physics 2008

Superstring Theory Michael B. Green. John H. Schwarz. Edward Witten 2012

A Primer on String Theory Volker Schomerus 2017-06-26 Since its conception in the 1960s, string theory has been hailed as one of the most promising routes we have to unify quantum mechanics and general relativity. This book provides a concise introduction to string theory explaining central concepts, mathematical tools and covering recent developments in physics including compactifications and gauge/string dualities. With string theory being a multidisciplinary field interfacing with high energy physics, mathematics and quantum field theory, this book is ideal for both students with no previous knowledge of the field and scholars from other disciplines who are looking for an introduction to basic concepts.

Superstring Theory: Volume 2, Loop Amplitudes, Anomalies and Phenomenology Michael B. Green 1988-07-29 A two-volume systematic exposition of superstring theory and its applications which presents many of the new mathematical tools that theoretical physicists are likely to need in coming years. This volume contains an introduction to superstrings

Solving and Comparing Exact Results on the Coulomb Branch of Scale Invariant Theories with Extended Supersymmetry Sophie Pelland 2001

Geometry from Algebra Surya Ganguli 2004

Inflation and String Theory Daniel Baumann 2015-04-23 This accessible volume provides a modern treatment of the cosmological and string-theoretic background necessary to understand inflation in string theory.

Moonshine beyond the Monster Terry Gannon 2023-07-27 A monograph on Moonshine, a mathematical physics topic, for graduate students and researchers.

Loops, Knots, Gauge Theories Rodolfo Gambini 2023-02-16 This volume provides a self-contained introduction to applications of loop representations in particle physics and quantum gravity, in order to explore the gauge invariant quantization of Yang-Mills theories and gravity. First published in 1996, this title has been reissued as an Open Access publication on Cambridge Core.

A First Course in String Theory Barton Zwiebach 2004-06-10
Publisher Description

Superstring Theory. Volume II: Loop Amplitudes, Anomalies & Phenomenology M. B. Green 1987

Superstring Theory: Loop amplitudes, anomalies, and phenomenology Michael B. Green 1987

Dark Matter Constraints on Supersymmetric Extensions of the Standard Model Andreas le Fevre Birkedal-Hansen 2003

Encyclopedia of Mathematical Physics Jean-Pierre Francoise 2006
The Encyclopedia of Mathematical Physics provides a complete resource for researchers, students and lecturers with an interest in mathematical physics. It enables readers to access basic information on topics peripheral to their own areas, to provide a repository of the core information in the area that can be used to refresh the researcher's own memory banks, and aid teachers in directing students to entries relevant to their course-work. The Encyclopedia does contain information that has been distilled, organised and presented as a complete reference tool to

the user and a landmark to the body of knowledge that has accumulated in this domain. It also is a stimulus for new researchers working in mathematical physics or in areas using the methods originating from work in mathematical physics by providing them with focused high quality background information. Editorial Board: Jean-Pierre Francoise, Université Pierre et Marie Curie, Paris, France Gregory L. Naber, Drexel University, Philadelphia, PA, USA Tsou Sheung Tsun, University of Oxford, UK Also available online via ScienceDirect (2006) - featuring extensive browsing, searching, and internal cross-referencing between articles in the work, plus dynamic linking to journal articles and abstract databases, making navigation flexible and easy.

Notices of the American Mathematical Society American Mathematical Society 1987

Finite-Temperature Field Theory Joseph I. Kapusta 2023-07-27 Develops the basic formalism and theoretical techniques for relativistic quantum field theory at high temperature and density; now Open Access.

Superstring Theory: Volume 2, Loop Amplitudes, Anomalies and Phenomenology Michael B. Green 2012-07-26 Twenty-five years ago, Michael Green, John Schwarz, and Edward Witten wrote two volumes on string theory. Published during a period of rapid progress in this subject, these volumes were highly influential for a generation of students and researchers. Despite the immense progress that has been made in the field since then, the systematic exposition of the foundations of superstring theory presented in these volumes is just as relevant today as when first published. Volume 2 is concerned with the evaluation of one-loop amplitudes, the study of anomalies and phenomenology. It examines the low energy effective field theory analysis of anomalies, the emergence of the gauge groups $E_8 \times E_8$ and $SO(32)$ and the four-dimensional physics that arises by compactification of six extra dimensions. Featuring a new Preface setting the work in context in light of recent advances, this book is invaluable for graduate students and researchers in high energy physics and astrophysics, as well as mathematicians.

Acta Scientiarum Mathematicarum 1988

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