

Philippe Di Francesco  
Pierre Mathieu  
David Sénéchal

# Conformal Field Theory



Springer

# Conformal Field Theory Philippe Francesco

**Luca Lionni**



## **Conformal Field Theory Philippe Francesco:**

**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

**Conformal Field Theory** Philippe Francesco, Pierre Mathieu, David Senechal, 1996-12-13 **Conformal Field Theory** Philippe Francesco, Pierre Mathieu, David Sénéchal, 1997 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

**Quantum Field Theory** Eduardo Fradkin, 2021-03-23 Quantum field theory is the mathematical and conceptual framework that describes the physics of the very small including subatomic particles and quasiparticles It is used to address a range of problems across subfields from high energy physics and gravitation to statistical physics and condensed matter physics Despite the breadth of its applications however the teaching of quantum field theory has historically been strongly oriented toward high energy physics students while others particularly in condensed matter and statistical physics are typically taught in a separate course or take an alternate sequence in many body and statistical physics Author Eduardo Fradkin strongly believes that this separation is both artificial and detrimental to all groups understanding of quantum field theory This textbook developed from a graduate course Fradkin has taught for decades at the University of Illinois offers a new multicultural approach to the subject that seeks to remedy this fragmentation It covers both basic techniques and topics at the frontiers of current research and integrates modern concepts and examples from high energy statistical and condensed matter physics alike Extensive problem sets further illustrate applications across a range of subfields The book will be suitable for students across physical subdisciplines who have mastered graduate level quantum mechanics and will be a useful reference for researchers

**Vertex Operator**

**Algebras, Number Theory and Related Topics** Matthew Krauel, Michael Tuite, Gaywalee Yamskulna, 2020-07-13 This volume contains the proceedings of the International Conference on Vertex Operator Algebras Number Theory and Related Topics held from June 11-15 2018 at California State University Sacramento California The mathematics of vertex operator algebras vector valued modular forms and finite group theory continues to provide a rich and vibrant landscape in mathematics and physics The resurgence of moonshine related to the Mathieu group and other groups the increasing role of algebraic geometry and the development of irrational vertex operator algebras are just a few of the exciting and active areas at present The proceedings center around active research on vertex operator algebras and vector valued modular forms and offer original contributions to the areas of vertex algebras and number theory surveys on some of the most important topics relevant to these fields introductions to new fields related to these and open problems from some of the leaders in these areas

Featured Reviews in Mathematical Reviews 1997-1999 Donald G. Babbitt, Jane E. Kister, 2000-05-05 This second volume of Featured Reviews makes available special detailed reviews of some of the most important mathematical articles and books published from 1997 through 1999 Also included are excellent reviews of several classic books and articles published prior to 1970 Among those reviews for example are the following Homological Algebra by Henri Cartan and Samuel Eilenberg reviewed by G Hochschild Faisceaux algébriques cohérents by Jean Pierre Serre reviewed by C Chevalley and On the Theory of General Partial Differential Operators by Lars Hormander reviewed by J L Lions In particular those seeking information on current developments outside their own area of expertise will find the volume very useful By identifying some of the best publications papers and books that have had or are expected to have a significant impact in applied and pure mathematics this volume will serve as a comprehensive guide to important new research across all fields covered by MR

**Colored Discrete Spaces** Luca Lionni, 2018-08-01 This book provides a number of combinatorial tools that allow a systematic study of very general discrete spaces involved in the context of discrete quantum gravity In any dimension  $D$  we can discretize Euclidean gravity in the absence of matter over random discrete spaces obtained by gluing families of polytopes together in all possible ways These spaces are then classified according to their curvature In  $D=2$  it results in a theory of random discrete spheres which converge in the continuum limit towards the Brownian sphere a random fractal space interpreted as a quantum random space time In this limit the continuous Liouville theory of  $D=2$  quantum gravity is recovered Previous results in higher dimension regarded triangulations converging towards a continuum random tree or gluings of simple building blocks of small sizes for which multi trace matrix model results are recovered in any even dimension In this book the author develops a bijection with stacked two dimensional discrete surfaces for the most general colored building blocks and details how it can be used to classify colored discrete spaces according to their curvature The way in which this combinatorial problem arises in discrete quantum gravity and random tensor models is discussed in detail

**The British National Bibliography** Arthur James Wells, 1998 Bulletin of the American Mathematical Society

,2014-04 American Journal of Physics ,1997 *American Book Publishing Record* ,1996-09 **Mathematical Reviews**  
,2005 **Bulletin (new Series) of the American Mathematical Society** ,2000 **Subject Guide to Books in Print**  
,1993 Cumulative Book Index ,1998 A world list of books in the English language **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 Deutsche Nationalbibliographie und  
Bibliographie der im Ausland erschienenen deutschsprachigen Veröffentlichungen ,1996 EPFL Lectures on Conformal  
Field Theory in  $D \geq 3$  Dimensions Slava Rychkov,2016-09-30 This primer develops Conformal Field Theory CFT from scratch  
whereby CFT is viewed as any conformally invariant theory that describes a fixed point of a renormalization group flow in  
quantum field theory The book is divided into four lectures Lecture 1 addresses the physical foundations of conformal  
invariance while Lecture 2 examines the constraints imposed by conformal symmetry on the correlation functions of local  
operators presented using the so called projective null cone a procedure also known as the embedding formalism In turn  
Lecture 3 focuses on the radial quantization and the operator product expansion while Lecture 4 offers a very brief  
introduction to the conformal bootstrap Derived from course based notes these lectures are intended as a first point of entry  
to this topic for Master and PhD students alike **Forthcoming Books** Rose Arny,1996-10 **Conformal Field Theory**  
Serge? Vladimirovich Ketov,1995 Conformal field theory is an elegant and powerful theory in the field of high energy physics  
and statistics In fact it can be said to be one of the greatest achievements in the development of this field Presented in two  
dimensions this book is designed for students who already have a basic knowledge of quantum mechanics field theory and  
general relativity The main idea used throughout the book is that conformal symmetry causes both classical and quantum  
integrability Instead of concentrating on the numerous applications of the theory the author puts forward a discussion of the  
general methods of conformal field theory as a physical theory Hence the book provides in a self contained way the necessary  
knowledge and conformal intuition which underline the various applications of conformal field theory It is aimed to assist  
students and professionals in the study of the theory from its first principles and in applying the methods in their own  
research The first of its kind this book promises to give a detailed and comprehensive insight into the workings of conformal  
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