

Non-Perturbative Methods in Two-Dimensional Quantum Field Theory

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Non Perturbative Methods In Two Dimensional Quantum Field Theory

Clemens Wendtner



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Methods In Two Dimensional Quantum Field Theory Elcio Abdalla, Maria Cristina Batoni Abdalla, Klaus D Rothe, 1991-08-12 This book is a survey of methods used in the study of two dimensional models in quantum field theory as well as applications of these theories in physics It covers the subject since the first model studied in the fifties up to modern developments in string theories and includes exact solutions non perturbative methods of study and nonlinear sigma models

Non-perturbative Methods in 2 Dimensional Quantum Field Theory Elcio Abdalla, M. Cristina B. Abdalla, Klaus Dieter Rothe, 1991 The authors have made a great effort to present in a careful and systematic way such a complete treatise for the benefit of non specialists This book is thus of great value to students and research physicists interested in two dimensional quantum field theory Numerous 15 useful appendices help the reader to understand and rederive the results at will making the book self contained **Non-perturbative Methods in Two-dimensional Quantum Field Theory** Teresa del Río Gaztelurrutia, University of Cambridge. Department of Applied Mathematics and Theoretical Physics, 1991

Non-perturbative Methods In 2 Dimensional Quantum Field Theory (2nd Edition) Elcio Abdalla, Maria Cristina Batoni Abdalla, Klaus D Rothe, 2001-07-31 The second edition of Non Perturbative Methods in Two Dimensional Quantum Field Theory is an extensively revised version involving major changes and additions Although much of the material is special to two dimensions the techniques used should prove helpful also in the development of techniques applicable in higher dimensions In particular the last three chapters of the book will be of direct interest to researchers wanting to work in the field of conformal field theory and strings This book is intended for students working for their PhD degree and post doctoral researchers wishing to acquaint themselves with the non perturbative aspects of quantum field theory

Non-Perturbative Field Theory Yitzhak Frishman, Jacob Sonnenschein, 2010-04-08 Providing a new perspective on quantum field theory this book gives a pedagogical and up to date exposition of non perturbative methods in relativistic quantum field theory and introduces the reader to modern research work in theoretical physics It describes in detail non perturbative methods in quantum field theory and explores two dimensional and four dimensional gauge dynamics using those methods The book concludes with a summary emphasizing the interplay between two and four dimensional gauge theories Aimed at graduate students and researchers this book covers topics from two dimensional conformal symmetry affine Lie algebras solitons integrable models bosonization and t Hooft model to four dimensional conformal invariance integrability large N expansion Skyrme model monopoles and instantons Applications first to simple field theories and gauge dynamics in two dimensions and then to gauge theories in four dimensions and quantum chromodynamics QCD in particular are thoroughly described

Non-perturbative Quantum Field Theory: Mathematical Aspects And Applications Jürg Fröhlich, 1992-04-29 Compiled to illustrate the recent history of Quantum Field Theory and its trends this collection of selected reprints by Jürg Fröhlich 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 Jürg Fröhlich 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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dimensional conformal field theory and an application to condensed matter theory Non-Perturbative Field Theory Jacob Sonnenschein, Yitzhak Frishman, 2009 Field theory is the framework with which one describes the theory of the standard model of elementary particles and their interactions The electromagnetic sector QED of the standard model is understood extremely well using perturbation theory but the color interaction QCD which is responsible for hadron physics can only be accounted for perturbatively for a limited set of observational data Due to the fact that at long distances the color interaction is strongly coupled one cannot reliably apply perturbative methods to extract for instance the spectrum of the hadrons The arsenal of tools to handle strongly coupled systems is obviously much more limited than the one used for weakly coupled ones Nevertheless several methods to handle non perturbative field theories have been developed The main goal of this book is to expose the reader to those techniques and to describe their applications in two dimensional and four dimensional field theories and finally in QCD in four dimensions Provided by publisher **Two-dimensional Models as Testing Ground for Principles and Concepts of Local Quantum Physics** Bert Schroer, 2005 **Two-dimensional Models** Bert Schroer, 2005 *Journal of Physics A* ,2000 Focuses on fundamental mathematical and computational methods underpinning physics Relevant to statistical physics chaotic and complex systems classical and quantum mechanics classical and quantum integrable systems and classical and quantum field theory Mathematical Reviews ,2002 **High Energy Physics Index** ,1994 Some Problems Inspired by Two-dimensional Quantum Gravity Karyn Maureen Apfeldorf, 1992 *INIS Atomindex* ,1987 **Energy Research Abstracts** ,1992 *Physics Letters* ,1999 **Journal of Physics** ,2001 *Trends in Theoretical Physics* ,1999

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