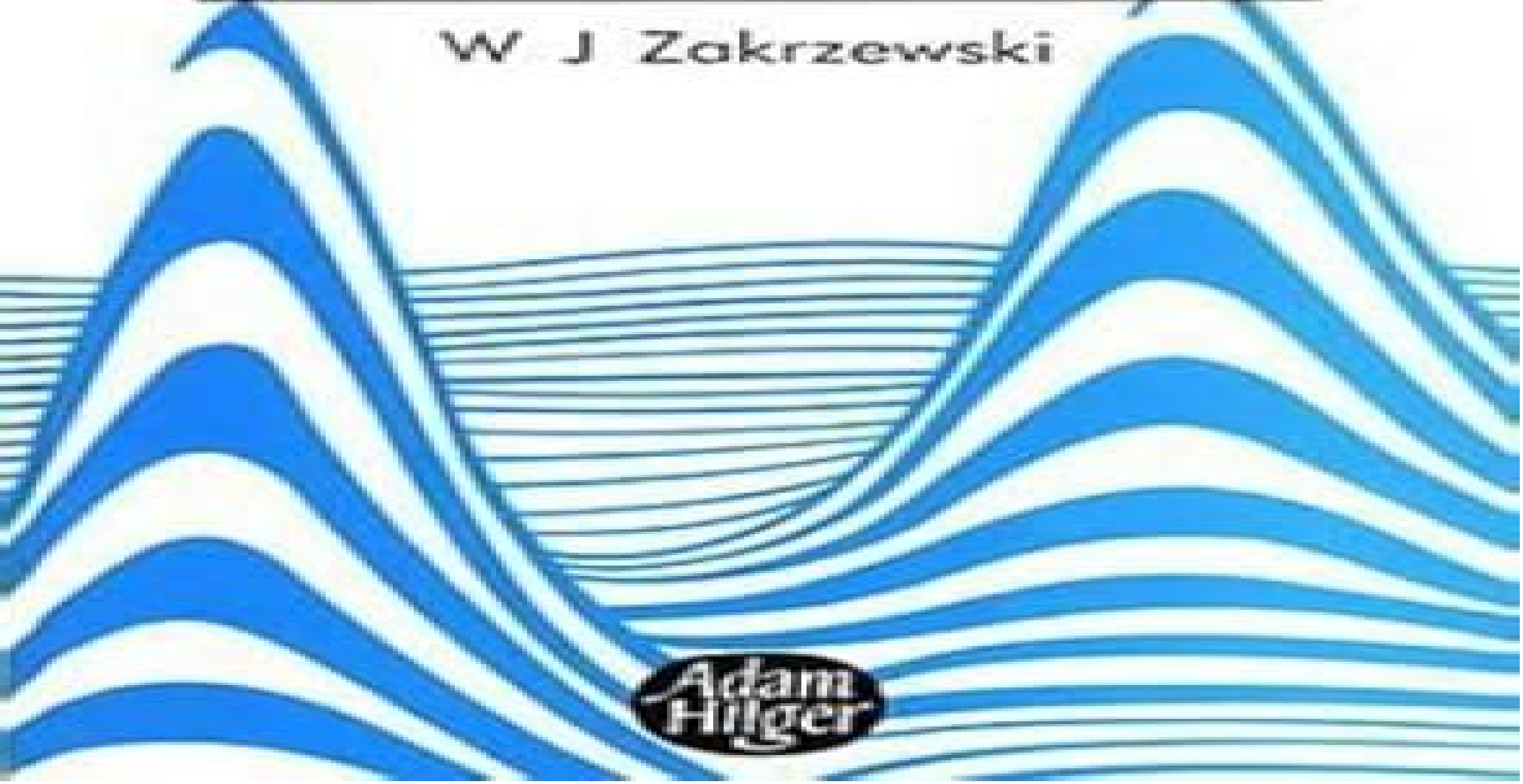
LOW DIMENSIONAL SIGMA MODELS

W J Zakrzewski



Adam Hilger

Low Dimensional Sigma Models

Gerald Dunne

Low Dimensional Sigma Models:

Low-dimensional Sigma Models, W. J. Zakrzewski,1989-06 This book gathers together established ideas and applications of sigma models and presents them together with modern applications to provide a unified and complete view of simple sigma models and the role they play in model building in field theoretical methods in elementary particle physics The book is written for both mathematicians and physicists and is aimed at graduate students and researchers in theoretical particle physics who are interested in sigma models and those working in the general area of harmonic maps in pure mathematics

Solitons in Low-dimensional Sigma Models Jens Gladikowski,1997 **Low Dimensional Sigma Models** ,1988 We discuss classical solutions of U N sigma models in two dimensions We show how from these solutions we can construct solutions of the U N sigma model with the Wess Zumino term with an arbitrary coefficient We discuss briefly various properties of these solutions Next we consider the O 3 sigma model in 2 1 dimensions and describe the preliminary results of some numerical work in which we studied the time evolution of some of the previously discussed two dimensional structures instantons and anti instantons under suitable assumptions about their initial values 9 refs 6 figs *Low-Dimensional Applications of Quantum Field Theory* L. Baulieu,Vladimir Kazakov,Marco Picco,Paul Windey,2013-12-01 The Cargese Summer School Low Dimensional Applications of Quantum Field Theory was held in July 1995 The School was dedicated to the memory of Claude Itzykson This session focused on the recent progress in quantum field theory in two dimen sions with a particular emphasis on integrable models and applications of quantum field theory to condensed matter physics A large fraction of the school was also devoted to a detailed review of the exciting developments in four dimensional super symmetric Yang Mills theory The diversity of the topics presented constitute in our opinion one of the most attractive features of these proceedings Some contributions constitute a very thor ough introduction to their subject matter and should be helpful to advanced students in the field while others present entirely new research not previously published and should be of considerable interest to the specialist There were in depth introductory lectures on the application of conformal field theory techniques to disordered systems on the quantum Hall effect on quantum in tegrable systems on the thermodynamic Bethe Ansatz and on the new developments in supersymmetric gauges theories The computation of the three point function of the Liouville model using conformal bootstrap methods was presented in detail **Quantum Non-linear Sigma-Models** Sergei V. Ketov,2000-09-14 Offers a systematic presentation of the modern quantum field theory of non linear sigma models These models are very popular in theoretical high energy physics string theory and statistical physics The geometric and quantum renormalization properties of the most general non linear sigma models are considered in detail within the framework of quantum perturbation theory The main applications to be considered in the book can be found in string theory conformal field theory and general relativity *Exact Methods in Low-dimensional Statistical Physics and Quantum Computing* Stephane Ouvry,Vincent Pasquier,Didina Serban,Leticia Cugliandolo,2010-04-22 Low dimensional statistical models are instrumental in improving our understanding of emerging fields such as quantum computing and cryptography complex systems and quantum fluids This book of lectures by international leaders in the field sets these issues into a larger and more coherent theoretical perspective than is currently available *Field Theories for Low-Dimensional Condensed Matter Systems* Guiseppe Morandi,Pasquale Sodano,Arturo Tagliacozzo,Valerio Tognetti,2013-03-14 This book is especially addressed to young researchers in theoretical physics with a basic background in Field Theory and Condensed Matter Physics The topics were chosen so as to offer the largest possible overlap between the two expertises selecting a few key problems in Condensed Matter Theory which have been recently revisited within a field theoretic approach The presentation of the material is aimed not only at providing the reader with an overview of this exciting frontier area of modern theoretical physics but also at elucidating most of the tools needed for a technical comprehen sion of the many papers appearing in current issues of physics journals and hopefully to enable the reader to tackle research problems in this area of physics This makes the material a live creature while not pretending it to be exhaustive it is tutorial enough to be useful to young researchers as a starting point in anyone of the topics covered in the book *Integrability, Supersymmetry and Coherent States* Şengül Kuru,Javier Negro,Luis M. Nieto,2019-07-12 This volume shares and makes accessible new research lines and recent results in several branches of theoretical and mathematical physics among them Quantum Optics Coherent States Integrable Systems SUSY Quantum Mechanics and Mathematical Methods in Physics In addition to a selection of the contributions presented at the 6th International Workshop on New Challenges in Quantum Mechanics Integrability and Supersymmetry held in Valladolid Spain 27 30 June 2017 several high quality contributions from other authors are also included The conference gathered 60 participants from many countries working in different fields of Theoretical Physics and was dedicated to Prof V ronique Hussin an internationally recognized expert in many branches of Mathematical Physics who has been making remarkable contributions to this field since the 1980s The reader will find interesting reviews on the main topics from internationally recognized experts in each field as well as other original contributions all of which deal with recent applications or discoveries in the aforementioned areas *Correlation Effects in Low-Dimensional Electron Systems* Ayao Okiji,Norio Kawakami,2012-12-06 Correlation Effects in Low Dimensional Electron Systems describes recent developments in theoretical condensed matter physics emphasizing exact solutions in one dimension including conformal field theoretical approaches the application of quantum groups and numerical diagonalization techniques Various key properties are presented for two dimensional highly correlated electron systems Tensor Network States and Effective Particles for Low-Dimensional Quantum Spin Systems Laurens Vanderstraeten,2017-08-10 This thesis develops new techniques for simulating the low energy behaviour of quantum spin systems in one and two dimensions Combining these developments it subsequently uses the formalism of tensor network states to derive an effective particle description for one and two dimensional spin systems that exhibit strong quantum correlations These techniques arise from the combination of two themes in many particle physics i the concept of quasiparticles as the effective low energy degrees of freedom in a condensed matter system and ii entanglement as the characteristic feature for describing quantum phases of matter Whereas the former gave rise to the use of effective field theories for understanding many particle systems the latter led to the development of tensor network states as a description of the entanglement distribution in quantum low energy states

Self-Dual Chern-Simons Theories Gerald Dunne,2009-02-13 Self duality greatly reduces the mathematical difficulties of a theory but it is also a notion of considerable physical significance The new class of self dual Chern Simons theories discussed in detail in this book arise in the context of anyonic quantum field theory and have applications to models such as the quantum Hall effect anyonic superconductivity and Aharonov Bohm scattering There are also interesting connections with the theory of integrable models The author presents the abelian and non abelian models for relativistic and non relativistic realizations of the self dual Chern Simons theories and finishes with some applications in quantum physics The book is written for advanced students and researchers in mathematical particle and condensed matter physics

Noncommutative Geometry and Number Theory Caterina Consani,Matilde Marcolli,2007-12-18 In recent years number theory and arithmetic geometry have been enriched by new techniques from noncommutative geometry operator algebras dynamical systems and K Theory This volume collects and presents up to date research topics in arithmetic and noncommutative geometry and ideas from physics that point to possible new connections between the fields of number theory algebraic geometry and noncommutative geometry The articles collected in this volume present new noncommutative geometry perspectives on classical topics of number theory and arithmetic such as modular forms class field theory the theory of reductive p adic groups Shimura varieties the local L factors of arithmetic varieties They also show how arithmetic appears naturally in noncommutative geometry and in physics in the residues of Feynman graphs in the properties of noncommutative tori and in the quantum Hall effect **Integrable Hierarchies and Modern Physical Theories** Henrik Aratyn,Alexander S. Sorin,2012-12-06 Proceedings of the NATO Advanced Research Workshop Chicago USA July 22 26 2000

Scientific and Technical Aerospace Reports ,1990 **Quantum Theory and Symmetries** M. B. Paranjape,Richard MacKenzie,Zora Thomova,Pavel Winternitz,William Witczak-Krempa,2021-03-26 This volume of the CRM Conference Series is based on a carefully refereed selection of contributions presented at the 11th International Symposium on Quantum Theory and Symmetries held in Montr al Canada from July 1 5 2019 The main objective of the meeting was to share and make accessible new research and recent results in several branches of Theoretical and Mathematical Physics including Algebraic Methods Condensed Matter Physics Cosmology and Gravitation Integrability Non perturbative Quantum Field Theory Particle Physics Quantum Computing and Quantum Information Theory and String ADS CFT There was also a special session in honour of Decio Levi The volume is divided into sections corresponding to the sessions held during the symposium allowing the reader to appreciate both the homogeneity and the diversity of mathematical tools that have been applied in these subject areas Several of the plenary speakers who are internationally recognized experts in their fields have contributed reviews of the main topics to complement the original contributions *Applications of Analytic and Geometric Methods to Nonlinear Differential Equations* P.A. Clarkson,2012-12-06 In the study of integrable systems two different approaches in particular have attracted considerable attention during the past twenty years 1 The inverse scattering transform IST using complex function theory which has been employed to solve many physically significant equations the soliton equations 2 Twistor theory using differential geometry which has been used to solve the self dual Yang Mills SDYM equations a four dimensional system having important applications in mathematical physics Both soliton and the SDYM equations have rich algebraic structures which have been extensively studied Recently it has been conjectured that in some sense all soliton equations arise as special cases of the SDYM equations subsequently many have been discovered as either exact or asymptotic reductions of the SDYM equations Consequently what seems to be emerging is that a natural physically significant system such as the SDYM equations provides the basis for a unifying framework underlying this class of integrable systems i e soliton systems This book contains several articles on the reduction of the SDYM equations to soliton equations and the relationship between the IST and twistor methods The majority of nonlinear evolution equations are nonintegrable and so asymptotic numerical perturbation and reduction techniques are often used to study such equations This book also contains articles on perturbed soliton equations Painlev analysis of partial differential equations studies of the Painlev equations and symmetry reductions of nonlinear partial differential equations ABSTRACT In the study of integrable systems two different approaches in particular have attracted considerable attention during the past twenty years the inverse scattering transform IST for soliton equations and twistor theory for the self dual Yang Mills SDYM equations This book contains severalarticles on the reduction of the SDYM equations to soliton equations and the relationship between the IST and twistor methods Additionally it contains articles on perturbed soliton equations Painlev analysis of partial differential equations studies of the Painlev equations and symmetry reductions of nonlinear partial differential equations

Noncommutative Geometry And Physics 2005 - Proceedings Of The International Sendai-beijing Joint Workshop Ursula Carow-watamura,Satoshi Watamura,Yoshiaki Maeda,Hitoshi Moriyoshi,Zhangju Liu,Ke Wu,2007-08-31 Noncommutative geometry is a novel approach which is opening up new possibilities for geometry from a mathematical viewpoint It is also providing new tools for the investigation of quantum space time in physics Recent developments in string theory have supported the idea of quantum spaces and have strongly stimulated the research in this field This self contained volume contains survey lectures and research articles which address these issues and related topics The book is accessible to both researchers and graduate students beginning to study this subject Topology of Gauge Fields and Condensed Matter M. Monastyrsky,2013-06-29 Intended mainly for physicists and mathematicians its high quality will definitely attract a wider audience Computational Mathematics and Mathematical Physics This work acquaints the physicist with the mathematical principles of algebraic topology group theory and differential geometry as applicable to research in field theory and the theory of condensed matter Emphasis is placed on the topological structure of monopole and instanton solution to the Yang Mills equations the description of phases in superfluid 3He and the topology of singular solutions in 3He and liquid crystals

The Role of Topology in Classical and Quantum Physics Giuseppe Morandi,2008-09-11 In solid state physics especially topological techniques have turned out to be extremely useful for modelling and explaining physical properties of matter This book illustrates various applications of algebraic topology in classical field theory non linear sigma models and in quantizationsin multiply connected spaces anyons It treats Chern Simon Lagrangians Berry s phase the polarization of light and the fractional quantum Hall effect *Bäcklund and Darboux Transformations* A. A. Coley,2001 This book is devoted to a classical topic that has undergone rapid and fruitful development over the past 25 years namely Backlund and Darboux transformations and their applications in the theory of integrable systems also known as soliton theory The book consists of two parts The first is a series of introductory pedagogical lectures presented by leading experts in the field They are devoted respectively to Backlund transformations of Painleve equations to the dressing methodand Backlund and Darboux transformations and to the classical geometry of Backlund transformations and their applications to soliton theory The second part contains original contributions that represent new developments in the theory and applications of these transformations Both the introductorylectures and the original talks were presented at an International Workshop that took place in Halifax Nova Scotia Canada This volume covers virtually all recent developments in the theory and applications of Backlund and Darboux transformations

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Table of Contents Low Dimensional Sigma Models

1. Understanding the eBook Low Dimensional Sigma Models
    - The Rise of Digital Reading Low Dimensional Sigma Models
    - Advantages of eBooks Over Traditional Books
2. Identifying Low Dimensional Sigma Models
    - Exploring Different Genres
    - Considering Fiction vs. Non-Fiction
    - Determining Your Reading Goals
3. Choosing the Right eBook Platform
    - Popular eBook Platforms
    - Features to Look for in an Low Dimensional Sigma Models
    - User-Friendly Interface
4. Exploring eBook Recommendations from Low Dimensional Sigma Models
    - Personalized Recommendations

  - Low Dimensional Sigma Models User Reviews and Ratings
  - Low Dimensional Sigma Models and Bestseller Lists
5. Accessing Low Dimensional Sigma Models Free and Paid eBooks
  - Low Dimensional Sigma Models Public Domain eBooks
  - Low Dimensional Sigma Models eBook Subscription Services
  - Low Dimensional Sigma Models Budget-Friendly Options
6. Navigating Low Dimensional Sigma Models eBook Formats
  - ePub, PDF, MOBI, and More
  - Low Dimensional Sigma Models Compatibility with Devices
  - Low Dimensional Sigma Models Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Low Dimensional Sigma Models
  - Highlighting and Note-Taking Low Dimensional Sigma Models
  - Interactive Elements Low Dimensional Sigma Models
8. Staying Engaged with Low Dimensional Sigma Models
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Low Dimensional Sigma Models
9. Balancing eBooks and Physical Books Low Dimensional Sigma Models
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Low Dimensional Sigma Models
10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine Low Dimensional Sigma Models
  - Setting Reading Goals Low Dimensional Sigma Models
  - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Low Dimensional Sigma Models
  - Fact-Checking eBook Content of Low Dimensional Sigma Models

    - Distinguishing Credible Sources
13. Promoting Lifelong Learning
    - Utilizing eBooks for Skill Development
    - Exploring Educational eBooks
14. Embracing eBook Trends
    - Integration of Multimedia Elements
    - Interactive and Gamified eBooks

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