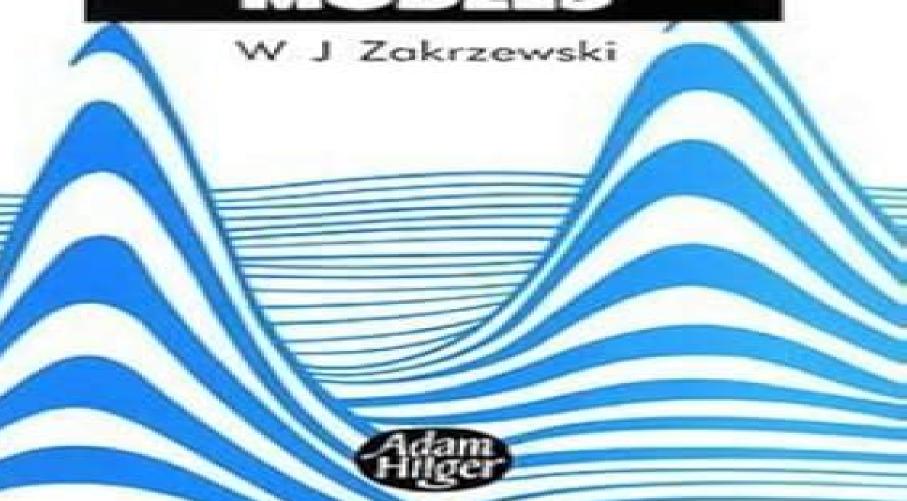# LOW DIMENSIONAL SIGMA MODELS

W J Zakrzewski

[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   *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   **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   *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   <u>Field Theories for Low-Dimensional Condensed Matter Systems</u> 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   **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

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   **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   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   **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   Integrable Quantum Field Theories And Their Applications - Procs Of The Apctp Winter School Changrim Ahn,Chaiho Rim,Ryu Sasaki,2001-09-25 This volume includes several lecture notes on the fundamentals and elementary techniques of integrable field theories and on their applications to low dimensional physics systems contributed by leading scientists in the respective fields The main topics covered are various aspects of the thermodynamic Bethe ansatz form factors Calogero and related models sigma models conformal boundary conditions etc The volume presents both pedagogical material and a current research trend in the field The proceedings have been selected for coverage in Index to Scientific Technical Proceedings ISTP CDROM version ISI Proceedings   **Noncommutative Geometry and Physics 2005** ,2007 This book provides a comprehensive overview of the authors pioneering contributions to nonlinear set valued analysis by topological methods The coverage includes fixed point theory degree theory the KKM principle variational inequality theory the Nash equilibrium point in mathematical economics the Pareto optimum in optimization and applications to best approximation theory partial equations and boundary value problems Self contained and unified in presentation the book considers the existence of equilibrium points of abstract economics in topological vector spaces from the viewpoint of Ky Fan minimax inequalities It also provides the latest developments in KKM theory and degree theory for nonlinear set valued mappings   *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 **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

Path Integrals in Physics M Chaichian,A Demichev,2018-10-08 The path integral approach has proved extremely useful for the understanding of the most complex problems in quantum field theory cosmology and condensed matter physics Path Integrals in Physics Volume II Quantum Field Theory Statistical Physics and other Modern Applications covers the fundamentals of path integrals both the Wiener and Feynman types and their many applications in physics The book deals with systems that have an infinite number of degrees of freedom It discusses the general physical background and concepts of the path integral approach used followed by a detailed presentation of the most typical and important applications as well as problems with either their solutions or hints how to solve them Each chapter is self contained and can be considered as an independent textbook It provides a comprehensive detailed and systematic account of the subject suitable for both students and experienced researchers *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

The book delves into Low Dimensional Sigma Models. Low Dimensional Sigma Models is a vital topic that must be grasped by everyone, ranging from students and scholars to the general public. The book will furnish comprehensive and in-depth insights into Low Dimensional Sigma Models, encompassing both the fundamentals and more intricate discussions.

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   - Chapter 2: Essential Elements of Low Dimensional Sigma Models
   - Chapter 3: Low Dimensional Sigma Models in Everyday Life
   - Chapter 4: Low Dimensional Sigma Models in Specific Contexts
   - Chapter 5: Conclusion

2. In chapter 1, this book will provide an overview of Low Dimensional Sigma Models. This chapter will explore what Low Dimensional Sigma Models is, why Low Dimensional Sigma Models is vital, and how to effectively learn about Low Dimensional Sigma Models.
3. In chapter 2, the author will delve into the foundational concepts of Low Dimensional Sigma Models. This chapter will elucidate the essential principles that must be understood to grasp Low Dimensional Sigma Models in its entirety.
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6. In chapter 5, the author will draw a conclusion about Low Dimensional Sigma Models. The final chapter will summarize the key points that have been discussed throughout the book.
   This book is crafted in an easy-to-understand language and is complemented by engaging illustrations. It is highly recommended for anyone seeking to gain a comprehensive understanding of Low Dimensional Sigma Models.

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Table of Contents Low Dimensional Sigma Models

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