LOW DIMENSIONAL SIGMA MODELS

W J Zakrzewski

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[Low Dimensional Sigma Models](#)

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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   *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   **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

   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 **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 **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 Branes and DAHA Representations Sergei Gukov,Peter Koroteev,Satoshi Nawata,Du Pei,Ingmar Saberi,2023-08-28 In recent years there has been an increased interest in exploring the connections between various disciplines of mathematics and theoretical physics such as representation theory algebraic geometry quantum field theory and string theory One of the challenges of modern mathematical physics is to understand rigorously the idea of quantization The program of quantization by branes which comes from string theory is explored in the book This open access book provides a detailed description of the geometric approach to the representation theory of the double affine Hecke algebra DAHA of rank one Spherical DAHA is known to arise from the deformation quantization of the moduli space of SL 2 C flat connections on the punctured torus The authors demonstrate the study of the topological A model on this moduli space and establish a correspondence between Lagrangian branes of the A model and DAHA modules The finite dimensional DAHA representations are shown to be in one to one correspondence with the compact Lagrangian branes Along the way the authors discover new finite dimensional indecomposable representations They proceed to embed the A

model story in an M theory brane construction closely related to the one used in the 3d 3d correspondence as a result modular tensor categories behind particular finite dimensional representations with PSL 2 Z action are identified The relationship of Coulomb branch geometry and algebras of line operators in 4d N 2 theories to the double affine Hecke algebra is studied further by using a further connection to the fivebrane system for the class S construction The book is targeted at experts in mathematical physics representation theory algebraic geometry and string theory This is an open access book   **Physics Briefs** ,1993   **Energy Research Abstracts** ,1977 Semiannual with semiannual and annual indexes References to all scientific and technical literature coming from DOE its laboratories energy centers and contractors Includes all works deriving from DOE other related government sponsored information and foreign nonnuclear information Arranged under 39 categories e g Biomedical sciences basic studies Biomedical sciences applied studies Health and safety and Fusion energy Entry gives bibliographical information and abstract Corporate author subject report number indexes
     Government Reports Announcements & Index ,1989-06   **Mathematical Reviews** ,1998   **LHP 2001** Alexander C. Kalloniatis,2002   *Chemical Abstracts* ,2002   **CERN Courier** European Organization for Nuclear Research,1997 This journal is devoted to the latest research on physics publishing articles on everything from elementary particle behavior to black holes and the history of the universe   **The Cumulative Book Index** ,1990 A world list of books in the English language   **The Journal of High Energy Physics** ,1999   High Energy Physics Index ,1994   *Proceedings of the Fifth Workshop on Quantum Field Theory Under the Influence of External Conditions* ,2002

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