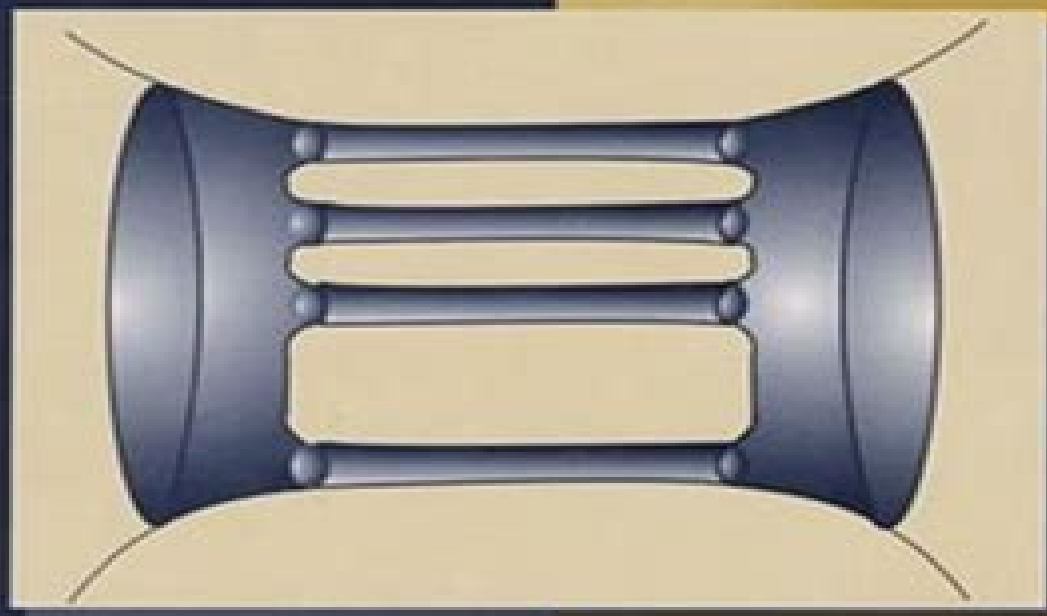# Seiberg-Witten Theory and Integrable Systems

Andrei Marshakov

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Seibergwitten Theory And The Integrable Systems

Poul Henrik Damgaard,Jerzy Jurkiewicz

Seibergwitten Theory And The Integrable Systems:

   Seiberg-witten Theory And The Integrable Systems Andrei Marshakov,1999-03-26 In the past few decades many attempts have been made to search for a consistent formulation of quantum field theory beyond perturbation theory One of the most interesting examples is the Seiberg Witten ansatz for the N 2 SUSY supersymmetric Yang Mills gauge theories in four dimensions The aim of this book is to present in a clear form the main ideas of the relation between the exact solutions to the supersymmetric SUSY Yang Mills theories and integrable systems This relation is a beautiful example of reformulation of close to realistic physical theory in terms widely known in mathematical physics systems of integrable nonlinear differential equations and their algebro geometric solutions First the book reviews what is known about the physical problem the construction of low energy effective actions for the N 2 Yang Mills theories from the traditional viewpoint of quantum field theory Then the necessary background information from the theory of integrable systems is presented In particular the author considers the definition of the algebro geometric solutions to integrable systems in terms of complex curves or Riemann surfaces and the generating meromorphic 1 form These definitions are illustrated in detail on the basic example of the periodic Toda chain Several toy model examples of string theory solutions where the structures of integrable systems appear are briefly discussed Then the author proceeds to the Seiberg Witten solutions and show that they are indeed defined by the same data as finite gap solutions to integrable systems The complete formulation requires the introduction of certain deformations of the finite gap solutions described in terms of quasiclassical or Whitham hierarchies The explicit differential equations and direct computations of the prepotential of the effective theory are presented and compared when possible with the well known computations from supersymmetric quantum gauge theories Finally the book discusses the properties of the exact solutions to SUSY Yang Mills theories and their relation to integrable systems in the general context of the modern approach to nonperturbative string or M theory   Seiberg-Witten Theory and Integrable Systems Andrei Marshakov,1999 In the past few decades many attempts have been made to search for a consistent formulation of quantum field theory beyond perturbation theory One of the most interesting examples is the Seiberg Witten ansatz for the N 2 SUSY supersymmetric Yang Mills gauge theories in four dimensions The aim of this book is to present in a clear form the main ideas of the relation between the exact solutions to the supersymmetric SUSY Yang Mills theories and integrable systems This relation is a beautiful example of reformulation of close to realistic physical theory in terms widely known in mathematical physics systems of integrable nonlinear differential equations and their algebro geometric solutions First the book reviews what is known about the physical problem the construction of low energy effective actions for the N 2 Yang Mills theories from the traditional viewpoint of quantum field theory Then the necessary background information from the theory of integrable systems is presented In particular the author considers the definition of the algebro geometric solutions to integrable systems in terms of complex curves or Riemann surfaces and the generating meromorphic 1 form These

definitions are illustrated in detail on the basic example of the periodic Toda chain Several toy model examples of string theory solutions where the structures of integrable systems appear are briefly discussed Then the author proceeds to the Seiberg Witten solutions and show that they are indeed defined by the same data as finite gap solutions to integrable systems The complete formulation requires the introduction of certain deformations of the finite gap solutions described in terms of quasiclassical or Whitham hierarchies The explicit differential equations and direct computations of the prepotential of the effective theory are presented and compared when possible with the well known computations from supersymmetric quantum gauge theories Finally the book discusses the properties of the exact solutions to SUSY Yang Mills theories and their relation to integrable systems in the general context of the modern approach to nonperturbative string or M theory

Seiberg Witten Gauge Theory Matilde Marcolli,1999-12-15   Instanton Counting, Quantum Geometry and Algebra Taro Kimura,2021-07-05 This book pedagogically describes recent developments in gauge theory in particular four dimensional N 2 supersymmetric gauge theory in relation to various fields in mathematics including algebraic geometry geometric representation theory vertex operator algebras The key concept is the instanton which is a solution to the anti self dual Yang Mills equation in four dimensions In the first part of the book starting with the systematic description of the instanton how to integrate out the instanton moduli space is explained together with the equivariant localization formula It is then illustrated that this formalism is generalized to various situations including quiver and fractional quiver gauge theory supergroup gauge theory The second part of the book is devoted to the algebraic geometric description of supersymmetric gauge theory known as the Seiberg Witten theory together with string M theory point of view Based on its relation to integrable systems how to quantize such a geometric structure via the deformation of gauge theory is addressed The third part of the book focuses on the quantum algebraic structure of supersymmetric gauge theory After introducing the free field realization of gauge theory the underlying infinite dimensional algebraic structure is discussed with emphasis on the connection with representation theory of quiver which leads to the notion of quiver W algebra It is then clarified that such a gauge theory construction of the algebra naturally gives rise to further affinization and elliptic deformation of W algebra

Application of Integrable Systems to Phase Transitions C.B. Wang,2013-07-20 The eigenvalue densities in various matrix models in quantum chromodynamics QCD are ultimately unified in this book by a unified model derived from the integrable systems Many new density models and free energy functions are consequently solved and presented The phase transition models including critical phenomena with fractional power law for the discontinuities of the free energies in the matrix models are systematically classified by means of a clear and rigorous mathematical demonstration The methods here will stimulate new research directions such as the important Seiberg Witten differential in Seiberg Witten theory for solving the mass gap problem in quantum Yang Mills theory The formulations and results will benefit researchers and students in the fields of phase transitions integrable systems matrix models and Seiberg Witten theory   Current Algebras on Riemann

Surfaces Oleg K. Sheinman,2012-10-01 This monograph is an introduction into a new and fast developing field on the crossroads of infinite dimensional Lie algebra theory and contemporary mathematical physics It contains a self consistent presentation of the theory of Krichever Novikov algebras Lax operator algebras their interaction representation theory relations to moduli spaces of Riemann surfaces and holomorphic vector bundles on them to Lax integrable systems and conformal field theory For beginners the book provides a short way to join in the investigations in these fields For experts it sums up the recent advances in the theory of almost graded infinite dimensional Lie algebras and their applications The book may serve as a base for semester lecture courses on finite dimensional integrable systems conformal field theory almost graded Lie algebras Majority of results are presented for the first time in the form of monograph *Integrable Systems and Algebraic Geometry* Ron Donagi,Tony Shaska,2020-03-02 A collection of articles discussing integrable systems and algebraic geometry from leading researchers in the field **Topological Quantum Field Theory and Four Manifolds** Jose Labastida,Marcos Marino,2007-07-18 The emergence of topological quantum eld theory has been one of the most important breakthroughs which have occurred in the context of ma ematical physics in the last century a century characterizedbyindependent developments of the main ideas in both disciplines physics and mathematics which has concluded with two decades of strong interaction between them where physics as in previous centuries has acted as a source of new mat matics Topological quantum eld theories constitute the core of these p nomena although the main drivingforce behind it has been the enormous e ort made in theoretical particle physics to understand string theory as a theory able to unify the four fundamental interactions observed in nature These theories set up a new realm where both disciplines pro t from each other Although the most striking results have appeared on the mathema calside theoreticalphysicshasclearlyalsobene tted sincethecorresponding developments have helped better to understand aspects of the fundamentals of eld and string theory **Theoretical Physics at the End of the Twentieth Century** Yvan Saint-Aubin,Luc Vinet,2013-03-14 The Centre de recherches matMmatiques CRM was created in 1968 by the Universite de Montreal to promote research in the mathematical sciences It is now a national institute that hosts several groups and holds special theme years summer schools workshops and a postdoctoral program The focus of its scientific activities ranges from pure to applied mathematics and includes statistics theoretical computer science mathematical methods in biology and life sciences and mathematical and theoretical physics The CRM also promotes collaboration between mathematicians and industry It is subsidized by the Natural Sciences and Engineering Research Council of Canada the Fonds FCAR of the Province de Quebec and the Canadian Institute for Advanced Research and has private endowments Current ac tivities fellowships and annual reports can be found on the CRM Web page at www CRM UMontreal CA The CRM Series in Mathematical Physics includes monographs lecture notes and proceedings based on research pursued and events held at the Centre de recherches matMmatiques Integrable Systems and Algebraic Geometry: Volume 2 Ron Donagi,Tony

Shaska,2020-04-02 Created as a celebration of mathematical pioneer Emma Previato this comprehensive book highlights the connections between algebraic geometry and integrable systems differential equations mathematical physics and many other areas The authors many of whom have been at the forefront of research into these topics for the last decades have all been influenced by Previato s research as her collaborators students or colleagues The diverse articles in the book demonstrate the wide scope of Previato s work and the inclusion of several survey and introductory articles makes the text accessible to graduate students and non experts as well as researchers The articles in this second volume discuss areas related to algebraic geometry emphasizing the connections of this central subject to integrable systems arithmetic geometry Riemann surfaces coding theory and lattice theory *New Developments in Quantum Field Theory* Poul Henrik Damgaard,Jerzy Jurkiewicz,2006-04-11 Quantum field theory is one of most central constructions in 20th century th retical physics and it continues to develop rapidly in many different directions The aim of the workshop New Developments in Quantum Field Theory which was held in Zakopane Poland June 14 20 1997 was to capture a broad selection of the most recent advances in this field The conference was sponsored by the Scientific and vironmental Affairs Division of NATO as part of the Advanced Research Workshop series This book contains the proceedings of that meeting Major topics covered at the workshop include quantized theories of gravity string theory conformal field theory cosmology field theory approaches to critical phenomena and the renormalization group matrix models and field theory techniques applied to the theory of turbulence One common theme at the conference was the use of large Nmatrix models to obtain exact results in a variety of different disciplines For example it has been known for several years that by taking a suitable double scaling limit certain string theories or two dimensional quantum gravity coupled to matter can be re obtained from the large Nexpansion of matrix models There continues to be a large activity in this area of research which was well reflected by talks given at our workshop Remarkably large Nmatrix models have very recently just a few months before our meeting been shown to have yet another deep relation to string theory **Integrability: from Statistical Systems to Gauge Theory** Patrick Dorey,Gregory Korchemsky,Nikita Nekrasov,Volker Schomerus,Didina Serban,2019 This volume contains lectures delivered at the Les Houches Summer School Integrability from statistical systems to gauge theory held in June 2016 The School was focussed on applications of integrability to supersymmetric gauge and string theory a subject of high and increasing interest in the mathematical and theoretical physics communities over the past decade Relevant background material was also covered with lecture series introducing the main concepts and techniques relevant to modern approaches to integrability conformal field theory scattering amplitudes and gauge string duality The book will be useful not only to those working directly on integrablility in string and guage theories but also to researchers in related areas of condensed matter physics and statistical mechanics *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 **Lie Algebras, Lie Superalgebras, Vertex Algebras**

and Related Topics Kailash C. Misra,Daniel K. Nakano,Brian J. Parshall,2016-06-28 This book contains the proceedings of the 2012 2014 Southeastern Lie Theory Workshop Series held at North Carolina State University in April 2012 at College of Charleston in December 2012 at Louisiana State University in May 2013 and at University of Georgia in May 2014 Some of the articles by experts in the field survey recent developments while others include new results in representations of Lie algebras and quantum groups vertex operator algebras and Lie superalgebras **From Fields to Strings** Misha Shifman,Arkady Vainshtein,J. F. Wheater,2005 *Topological Recursion and its Influence in Analysis, Geometry, and Topology* Chiu-Chu Melissa Liu,Motohico Mulase,2018-11-19 This volume contains the proceedings of the 2016 AMS von Neumann Symposium on Topological Recursion and its Influence in Analysis Geometry and Topology which was held from July 4 8 2016 at the Hilton Charlotte University Place Charlotte North Carolina The papers contained in the volume present a snapshot of rapid and rich developments in the emerging research field known as topological recursion It has its origin around 2004 in random matrix theory and also in Mirzakhani s work on the volume of moduli spaces of hyperbolic surfaces Topological recursion has played a fundamental role in connecting seemingly unrelated areas of mathematics such as matrix models enumeration of Hurwitz numbers and Grothendieck s dessins d enfants Gromov Witten invariants the A polynomials and colored polynomial invariants of knots WKB analysis and quantization of Hitchin moduli spaces In addition to establishing these topics the volume includes survey papers on the most recent key accomplishments discovery of the unexpected relation to semi simple cohomological field theories and a solution to the remodeling conjecture It also provides a glimpse into the future research direction for example connections with the Airy structures modular functors Hurwitz Frobenius manifolds and ELSV type formulas **New Dualities of Supersymmetric Gauge Theories** Jörg Teschner,2015-11-17 This book reviews a number of spectacular advances that have been made in the study of supersymmetric quantum field theories in the last few years Highlights include exact calculations of Wilson loop expectation values and highly nontrivial quantitative checks of the long standing electric magnetic duality conjectures The book starts with an introductory article presenting a survey of recent advances aimed at a wide audience with a background and interest in theoretical physics The following articles are written for advanced students and researchers in quantum field theory string theory and mathematical physics our goal being to familiarize these readers with the forefront of current research The topics covered include recent advances in the classification and vacuum structure of large families of N 2 supersymmetric field theories followed by an extensive discussion of the localisation method one of the most powerful tools for exact studies of supersymmetric field theories The quantities that have been studied in this way are partition functions expectation values of line operators and supersymmetric indices The book also reviews recently discovered connections between SUSY field theories in four dimensions and two dimensional conformal field theory These connections have a counterpart in relations between three dimensional gauge theories and Chern Simons theory the book s closing chapters explore connections with

string theory   *Geometry and Integrability* Lionel Mason,Yavuz Nutku,2003-11-20 Most integrable systems owe their origin to problems in geometry and they are best understood in a geometrical context This is especially true today when the heroic days of KdV type integrability are over Problems that can be solved using the inverse scattering transformation have reached the point of diminishing returns Two major techniques have emerged for dealing with multi dimensional integrable systems twistor theory and the d bar method both of which form the subject of this book It is intended to be an introduction though by no means an elementary one to current research on integrable systems in the framework of differential geometry and algebraic geometry This book arose from a seminar held at the Feza Gursey Institute to introduce advanced graduate students to this area of research The articles are all written by leading researchers and are designed to introduce the reader to contemporary research topics   Frontiers in Quantum Field Theory H. (Osaka University Itoyama (Japan)),M. Niuomiya,1996   *Lie Theory and Its Applications in Physics V* H. D. Doebner,V. K. Dobrev,2004 This volume is targeted at theoretical physicists mathematical physicists and mathematicians working on mathematical models for physical systems based on symmetry methods and in the field of Lie theory understood in the widest sense It includes contributions on Lie theory with two papers by the famous mathematician Kac one paper with Bakalov further papers by Aoki Moens Some other important contributions are in field theory OCo Todorov Grosse Kreimer Sokatchev Gomez string theory OCo Minwalla Staudacher Kostov integrable systems OCo Belavin Helminck Ragoucy quantum mechanical and probabilistic systems OCo Goldin Van der Jeugt Leandre quantum groups and related objects OCo Jakobsen Arnaudon Andruskiewitsch and others The proceedings have been selected for coverage in OCo Index to Scientific Technical Proceedings ISTP ISI Proceedings OCo Index to Scientific Technical Proceedings ISTP CDROM version ISI Proceedings OCo CC Proceedings OCo Engineering Physical Sciences

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