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# Seibergwitten Gauge Theory

**Jacques Hurtubise, François Lalonde**



## Seibergwitten Gauge Theory:

**Seiberg Witten Gauge Theory** Matilde Marcolli, 1999-12-15      **Seiberg-Witten Gauge Theory** Matilde Marcolli, 1990

**Three Dimensional Aspects of Seiberg-Witten Gauge Theory** Matilde Marcolli, 1997      **Notes on Seiberg-Witten Theory** Liviu I. Nicolaescu, In this volume the author presents in great detail and with many examples a basic collection of principles techniques and applications needed to conduct independent research in gauge theory and its use in geometry and topology Complete and self contained computations of the Seiberg Witten invariants of most simply connected algebraic surfaces using only Witten's factorization method are included Also given is a new approach to cutting and pasting Seiberg Witten invariants which is illustrated by examples such as the connected sum theorem the blow up formula and a proof of a vanishing result of Fintushel and Stern The book is a suitable textbook for advanced graduate courses in differential geometry algebraic topology basic PDEs and functional analysis      **Notes on Seiberg-Witten Gauge Theory** Matilde Marcolli, 1995

Gauge Theory and the Topology of Four-Manifolds Robert Friedman, 1997 The lectures in this volume provide a perspective on how 4 manifold theory was studied before the discovery of modern day Seiberg Witten theory One reason the progress using the Seiberg Witten invariants was so spectacular was that those studying SU 2 gauge theory had more than ten years experience with the subject The tools had been honed the correct questions formulated and the basic strategies well understood The knowledge immediately bore fruit in the technically simpler environment of the Seiberg Witten theory Gauge theory long predates Donaldson's applications of the subject to 4      Gauge Theory and the Topology of Four-Manifolds Robert Friedman, John W. Morgan, This text is part of the IAS Park City Mathematics series and focuses on gauge theory and the topology of four manifolds      *Gauge Theories and Seiberg-Witten Monopoles* Hagop Bedros Tossounian, American University of Beirut. Faculty of Arts and Sciences. Department of Mathematics, 2011 In 1983 Donaldson achieved a breakthrough in differential topology by using the moduli space of solutions of an SU 2 gauge theory to construct new invariants of smooth 4 manifolds The methods revealed by Donaldson although highly successful are known to be technically very difficult In 1994 Witten suggested that the moduli space of certain monopole equations studied earlier by Seiberg and himself could recover all the results obtainable through Donaldson's approach while being easier to handle This claim was proven in many cases The Seiberg Witten theory is an example of a U 1 gauge theory In this thesis the geometrical structures needed for the construction of gauge theories such as principal bundles connections and matter fields are introduced The Seiberg Witten equations are defined and their invariance under the relevant gauge group is established Finally the cohomology of a complex naturally associated with a Seiberg Witten monopole is considered and we show that such a cohomology exists in a much more general context In the case of Seiberg Witten its vanishing in degrees 0 and 2 implies smoothness of the moduli space in the neighborhood of the monopole      **Gauge Theory and Symplectic Geometry** Jacques Hurtubise, François Lalonde, 1997-03-31 Gauge theory symplectic geometry and symplectic topology are important

areas at the crossroads of several mathematical disciplines The present book with expertly written surveys of recent developments in these areas includes some of the first expository material of Seiberg Witten theory which has revolutionised the subjects since its introduction in late 1994 Topics covered include introductions to Seiberg Witten theory to applications of the S W theory to four dimensional manifold topology and to the classification of symplectic manifolds an introduction to the theory of pseudo holomorphic curves and to quantum cohomology algebraically integrable Hamiltonian systems and moduli spaces the stable topology of gauge theory Morse Floer theory pseudo convexity and its relations to symplectic geometry generating functions Frobenius manifolds and topological quantum field theory Topology, Geometry and Gauge fields Gregory L. Naber, 2011-03-22 A study of topology and geometry beginning with a comprehensible account of the extraordinary and rather mysterious impact of mathematical physics and especially gauge theory on the study of the geometry and topology of manifolds The focus of the book is the Yang Mills Higgs field and some considerable effort is expended to make clear its origin and significance in physics Much of the mathematics developed here to study these fields is standard but the treatment always keeps one eye on the physics and sacrifices generality in favor of clarity This second edition has replaced a brief appendix in the first on the Seiberg Witten equations with a much more detailed survey of Donaldson Witten Theory and the Witten Conjecture regarding the relationship between Donaldson and Seiberg Witten invariants A large number of exercises are included to encourage active participation on the part of the reader Review from first edition It is unusual to find a book so carefully tailored to the needs of this interdisciplinary area of mathematical physics Naber combines a knowledge of his subject with an excellent informal writing style SIAM REVIEW **Gauge Theory and the Topology of Four-Manifolds** Robert Friedman, John W. Morgan, 2024-12-05 The lectures in this volume provide a perspective on how 4 manifold theory was studied before the discovery of modern day Seiberg Witten theory One reason the progress using the Seiberg Witten invariants was so spectacular was that those studying SU 2 gauge theory had more than ten years experience with the subject The tools had been honed the correct questions formulated and the basic strategies well understood The knowledge immediately bore fruit in the technically simpler environment of the Seiberg Witten theory Gauge theory long predates Donaldson s applications of the subject to 4 manifold topology where the central concern was the geometry of the moduli space One reason for the interest in this study is the connection between the gauge theory moduli spaces of a Kähler manifold and the algebro geometric moduli space of stable holomorphic bundles over the manifold The extra geometric richness of the SU 2 moduli spaces may one day be important for purposes beyond the algebraic invariants that have been studied to date It is for this reason that the results presented in this volume will be essential **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

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*Quantum Field Theory and Manifold Invariants* Daniel S. Freed, Sergei Gukov, Ciprian Manolescu, Constantin

Teleman, Ulrike Tillmann, 2021-12-02 This volume contains lectures from the Graduate Summer School Quantum Field Theory and Manifold Invariants held at Park City Mathematics Institute 2019 The lectures span topics in topology global analysis and physics and they range from introductory to cutting edge Topics treated include mathematical gauge theory anti self dual equations Seiberg Witten equations Higgs bundles classical and categorified knot invariants Khovanov homology Heegaard Floer homology instanton Floer homology invertible topological field theory BPS states and spectral networks This collection presents a rich blend of geometry and topology with some theoretical physics thrown in as well and so provides a snapshot of a vibrant and fast moving field Graduate students with basic preparation in topology and geometry can use this volume to learn advanced background material before being brought to the frontiers of current developments Seasoned researchers will also benefit from the systematic presentation of exciting new advances by leaders in their fields **The**

**Seiberg-Witten Equations and Applications to the Topology of Smooth Four-manifolds** John W. Morgan, 1996 The recent introduction of the Seiberg Witten invariants of smooth four manifolds has revolutionized the study of those manifolds The invariants are gauge theoretic in nature and are close cousins of the much studied SU 2 invariants defined over fifteen years ago by Donaldson On a practical level the new invariants have proved to be more powerful and have led to a vast generalization of earlier results This book is an introduction to the Seiberg Witten invariants The work begins with a review of the classical material on Spin c structures and their associated Dirac operators Next comes a discussion of the Seiberg Witten equations which is set in the context of nonlinear elliptic operators on an appropriate infinite dimensional space of configurations It is demonstrated that the space of solutions to these equations called the Seiberg Witten moduli space is finite dimensional and its dimension is then computed In contrast to the SU 2 case the Seiberg Witten moduli spaces are shown to be compact The Seiberg Witten invariant is then essentially the homology class in the space of configurations represented by the Seiberg Witten moduli space The last chapter gives a flavor for the applications of these new invariants by computing the invariants for most Kahler surfaces and then deriving some basic topological consequences for these surfaces *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

Linear Algebra Hassan Yasser, 2012-07-11 Linear algebra occupies a central place in modern mathematics Also it is a beautiful and mature field of mathematics and mathematicians have developed highly effective methods for solving its problems It is a subject well worth studying for its own sake This book contains selected topics in linear algebra which represent the recent contributions in the most famous and widely problems It includes a wide range of theorems and applications in different branches of linear algebra such as linear systems matrices operators inequalities etc It continues to be a definitive resource for researchers scientists and graduate students

Topological Quantum Field Theory and Four Manifolds Jose Labastida, Marcos Marino, 2007-07-18 The emergence of topological quantum field theory has been one of the most important breakthroughs which have occurred in the context of mathematical physics in the last century a century characterized by independent 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 mathematics Topological quantum field theories constitute the core of these phenomena although the main driving force behind it has been the enormous effort 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 profit from each other Although the most striking results have appeared on the mathematical side theoretical physics has clearly also benefited since the corresponding developments have helped better to understand aspects of the fundamentals of field and string theory

**Frontiers in Geometry and Topology** Paul M. N. Feehan, Lenhard L. Ng, Peter S. Ozsváth, 2024-07-19 This volume contains the proceedings of the summer school and research conference Frontiers in Geometry and Topology celebrating the sixtieth birthday of Tomasz Mrowka which was held from August 1-12 2022 at the Abdus Salam International Centre for Theoretical Physics ICTP The summer school featured ten lecturers and the research conference featured twenty three speakers covering a range of topics A common thread reflecting Mrowka s own work was the rich interplay among the fields of analysis geometry and topology Articles in this volume cover topics including knot theory the topology of three and four

dimensional manifolds instanton monopole and Heegaard Floer homologies Khovanov homology and pseudoholomorphic curve theory     *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

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