

John W. Morgan

The Seiberg-Witten Equations
and Applications to the
Topology of Smooth
Four-Manifolds

塞伯格-威顿方程及其在
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Seiberg Witten Equations And Applications To The Topology Of Smooth Four Manifolds

Michael E. Taylor



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The Seiberg-Witten Equations and Applications to the Topology of Smooth Four-Manifolds John W. Morgan, 2014-09-08

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 Kähler surfaces and then deriving some basic topological consequences for these surfaces.

Lectures on Seiberg-Witten Invariants John D. Moore, 2001-04-24 Riemannian symplectic and complex geometry are often studied by means of solutions to systems of nonlinear differential equations such as the equations of geodesics, minimal surfaces, pseudoholomorphic curves and Yang Mills connections. For studying such equations a new unified technology has been developed involving analysis on infinite dimensional manifolds. A striking application of the new technology is Donaldson's theory of anti self dual connections on SU 2 bundles over four manifolds which applies the Yang Mills equations from mathematical physics to shed light on the relationship between the classification of topological and smooth four manifolds. This reverses the expected direction of application from topology to differential equations to mathematical physics. Even though the Yang Mills equations are only mildly nonlinear a prodigious amount of nonlinear analysis is necessary to fully understand the properties of the space of solutions. At our present state of knowledge understanding smooth structures on topological four manifolds seems to require nonlinear as opposed to linear PDEs. It is therefore quite surprising that there is a set of PDEs which are even less nonlinear than the Yang Mills equation but can yield many of the most important results from Donaldson's theory. These are the Seiberg Witten equations. These lecture notes stem from a graduate course given at the University of California in Santa Barbara during the spring quarter of 1995. The objective was to make the Seiberg Witten approach to Donaldson theory accessible to second year graduate students who had already taken basic courses in differential geometry and algebraic topology.

Geometry and Topology of Manifolds Hans U. Boden, This book contains expository papers that give an up to date account of recent developments and open problems in the geometry and topology of manifolds along with several research articles that present new results appearing

in published form for the first time. The unifying theme is the problem of understanding manifolds in low dimensions notably in dimensions three and four and the techniques include algebraic topology surgery theory Donaldson and Seiberg Witten gauge theory Heegaard Floer homology contact and symplectic geometry and Gromov Witten invariants. The articles collected for this volume were contributed by participants of the Conference Geometry and Topology of Manifolds held at McMaster University on May 14-18 2004 and are representative of the many excellent talks delivered at the conference.

Gauge Theory and the Topology of Four-Manifolds Robert Friedman, John W. Morgan, 2004-12-05. 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.

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.

Lectures on Seiberg-Witten Invariants John D. Moore, 2009-01-20. Riemannian symplectic and complex geometry are often studied by means of solutions to systems of nonlinear differential equations such as the equations of geodesics minimal surfaces pseudoholomorphic curves and Yang-Mills connections. For studying such equations a new unified technology has been developed involving analysis on infinite dimensional manifolds. A striking application of the new technology is Donaldson's theory of anti-self dual connections on SU(2) bundles over four manifolds which applies the Yang-Mills equations from mathematical physics to shed light on the

relationship between the classification of topological and smooth four manifolds This reverses the expected direction of application from topology to differential equations to mathematical physics Even though the Yang Mills equations are only mildly nonlinear a prodigious amount of nonlinear analysis is necessary to fully understand the properties of the space of solutions At our present state of knowledge understanding smooth structures on topological four manifolds seems to require nonlinear as opposed to linear PDE s It is therefore quite surprising that there is a set of PDE s which are even less nonlinear than the Yang Mills equation but can yield many of the most important results from Donaldson s theory These are the Seiberg Witte equations These lecture notes stem from a graduate course given at the University of California in Santa Barbara during the spring quarter of 1995 The objective was to make the Seiberg Witten approach to Donaldson theory accessible to second year graduate students who had already taken basic courses in differential geometry and algebraic topology

Geometry in History S. G. Dani, Athanase Papadopoulos, 2019-10-18 This is a collection of surveys on important mathematical ideas their origin their evolution and their impact in current research The authors are mathematicians who are leading experts in their fields The book is addressed to all mathematicians from undergraduate students to senior researchers regardless of the specialty *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 **Geometry and Physics** H. Pedersen, 2021-01-08 Based on the proceedings of the Special Session on Geometry and Physics held over a six month period at the University of Aarhus Denmark and on articles from the Summer school held at Odense University Denmark Offers new contributions on a host of topics that involve physics geometry and topology Written by more than 50 leading international experts Riemannian Geometry and Geometric Analysis Jürgen

Jost, 2011-07-28 This established reference work continues to lead its readers to some of the hottest topics of contemporary mathematical research The previous edition already introduced and explained the ideas of the parabolic methods that had found a spectacular success in the work of Perelman at the examples of closed geodesics and harmonic forms It also discussed further examples of geometric variational problems from quantum field theory another source of profound new

ideas and methods in geometry The 6th edition includes a systematic treatment of eigenvalues of Riemannian manifolds and several other additions Also the entire material has been reorganized in order to improve the coherence of the book From the reviews This book provides a very readable introduction to Riemannian geometry and geometric analysis With the vast development of the mathematical subject of geometric analysis the present textbook is most welcome Mathematical Reviews the material is self contained Each chapter ends with a set of exercises Most of the paragraphs have a section Perspectives written with the aim to place the material in a broader context and explain further results and directions Zentralblatt MATH

Proceedings of the Summer School Geometric and Topological Methods for Quantum Field Theory Alexander Cardona, Hernan Ocampo, Sylvie Paycha, 2003 This volume offers an introduction to recent developments in several active topics of research at the interface between geometry topology and quantum field theory These include Hopf algebras underlying renormalization schemes in quantum field theory noncommutative geometry with applications to index theory on one hand and the study of aperiodic solids on the other geometry and topology of low dimensional manifolds with applications to topological field theory Chern Simons supergravity and the anti de Sitter conformal field theory correspondence It comprises seven lectures organized around three main topics noncommutative geometry topological field theory followed by supergravity and string theory complemented by some short communications by young participants of the school

New Ideas In Low Dimensional Topology Vassily Olegovich Manturov, Louis H Kauffman, 2015-01-27 This book consists of a selection of articles devoted to new ideas and developments in low dimensional topology Low dimensions refer to dimensions three and four for the topology of manifolds and their submanifolds Thus we have papers related to both manifolds and to knotted submanifolds of dimension one in three classical knot theory and two in four surfaces in four dimensional spaces Some of the work involves virtual knot theory where the knots are abstractions of classical knots but can be represented by knots embedded in surfaces This leads both to new interactions with classical topology and to new interactions with essential combinatorics

Differential and Low-Dimensional Topology András Juhász, 2023-04-20 The new student in differential and low dimensional topology is faced with a bewildering array of tools and loosely connected theories This short book presents the essential parts of each enabling the reader to become literate in the field and begin research as quickly as possible The only prerequisite assumed is an undergraduate algebraic topology course The first half of the text reviews basic notions of differential topology and culminates with the classification of exotic seven spheres It then dives into dimension three and knot theory There then follows an introduction to Heegaard Floer homology a powerful collection of modern invariants of three and four manifolds and of knots that has not before appeared in an introductory textbook The book concludes with a glimpse of four manifold theory Students will find it an exhilarating and authoritative guide to a broad swathe of the most important topics in modern topology

Partial Differential Equations II Michael E. Taylor, 2010-11-02 This second in the series of three volumes builds upon the basic theory of linear PDE given in volume 1 and pursues more

advanced topics Analytical tools introduced here include pseudodifferential operators the functional analysis of self adjoint operators and Wiener measure The book also develops basic differential geometrical concepts centred about curvature Topics covered include spectral theory of elliptic differential operators the theory of scattering of waves by obstacles index theory for Dirac operators and Brownian motion and diffusion *Topology, Geometry, and Gauge Fields* Gregory L. Naber, 2013-03-14 This volume is intended to carry on the program initiated in *Topology, Geometry, and Gauge Fields: Foundations* henceforth N4 It is written in much the same spirit and with precisely the same philosophical motivation Mathematics and physics have gone their separate ways for nearly a century now and it is time for this to end Neither can any longer afford to ignore the problems and insights of the other Why are Dirac magnetic monopoles in one to one correspondence with the principal $U(1)$ bundles over S^2 Why do Higgs fields fall into topological types What led Donaldson in 1980 to seek in the Yang Mills equations of physics for the key that unlocks the mysteries of smooth 4 manifolds and what physical insights into quantum field theory led Witten fourteen years later to propose the vastly simpler but apparently equivalent Seiberg Witten equations as an alternative We do not presume to answer these questions here but only to promote an atmosphere in which both mathematicians and physicists recognize the need for answers More succinctly we shall endeavor to provide an exposition of elementary topology and geometry that keeps one eye on the physics in which our concepts either arose independently or have been found to lead to a deeper understanding of the phenomena Chapter 1 provides a synopsis of the geometrical background we assume of our readers manifolds Lie groups bundles connections etc

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

Variations on a Theme of Borel Shmuel Weinberger, 2022-12-08 Explains using examples the central role of the fundamental group in the geometry global analysis and topology of manifolds

Lectures on Differential Geometry Bennett Chow, Yutze Chow, 2024-10-07 Differential geometry is a subject related to many fields in mathematics and the sciences The authors of this book provide a vertically integrated introduction to differential geometry and geometric analysis The material is presented in three distinct parts an introduction to geometry via submanifolds of Euclidean space a first course in Riemannian geometry and a graduate special topics course in geometric analysis and it contains more than enough content to serve as a good textbook for a course in any of these three topics The reader will learn about the classical theory of submanifolds smooth manifolds Riemannian comparison geometry bundles connections and curvature the Chern Gauss Bonnet formula harmonic functions eigenfunctions and eigenvalues on Riemannian manifolds minimal surfaces the curve shortening flow and the Ricci flow on surfaces This will provide a pathway to further topics in geometric analysis such as Ricci flow used by Hamilton and Perelman to solve the Poincaré and Thurston geometrization conjectures mean curvature flow and minimal submanifolds The book is primarily aimed at graduate students in geometric analysis but it will also be of interest to postdoctoral researchers and established mathematicians looking for a refresher or deeper exploration of the topic

Symplectic 4-Manifolds and Algebraic Surfaces Denis Auroux, Fabrizio Catanese, Marco Manetti, Gang Tian, Paul Seidel, Bernd Siebert, Ivan Smith, 2008-04-17 Modern approaches to the study of symplectic 4 manifolds and algebraic surfaces combine a wide range of techniques and sources of inspiration Gauge theory symplectic geometry pseudoholomorphic curves singularity theory moduli spaces braid groups monodromy in addition to classical topology and algebraic geometry combine to make this one of the most vibrant and active areas of research in mathematics It is our hope that the five lectures of the present volume given at the C I M E Summer School held in Cetraro Italy September 2 10 2003 will be useful to people working in related areas of mathematics and will become standard references on these topics The volume is a coherent exposition of an active field of current research focusing on the introduction of new methods for the study of moduli spaces of complex structures on algebraic surfaces and for the investigation of symplectic topology in dimension 4 and higher

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