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FLOER HOMOLOGY GROUPS IN YANG–MILLS THEORY

S. DONALDSON

Floer Homology Groups In Yang Mills Theory

Dusa McDuff,Dietmar Salamon

Floer Homology Groups In Yang Mills Theory:

   Floer Homology Groups in Yang-Mills Theory S. K. Donaldson,2002-01-10 The concept of Floer homology was one of the most striking developments in differential geometry It yields rigorously defined invariants which can be viewed as homology groups of infinite dimensional cycles The ideas led to great advances in the areas of low dimensional topology and symplectic geometry and are intimately related to developments in Quantum Field Theory The first half of this book gives a thorough account of Floer s construction in the context of gauge theory over 3 and 4 dimensional manifolds The second half works out some further technical developments of the theory and the final chapter outlines some research developments for the future including a discussion of the appearance of modular forms in the theory The scope of the material in this book means that it will appeal to graduate students as well as those on the frontiers of the subject *Floer Homology Groups in Yang-Mills Theory ICM Edition* Donaldson,2010-07-23 *Floer Homology, Gauge Theory, and Low-Dimensional Topology* Clay Mathematics Institute. Summer School,2006 Mathematical gauge theory studies connections on principal bundles or more precisely the solution spaces of certain partial differential equations for such connections Historically these equations have come from mathematical physics and play an important role in the description of the electro weak and strong nuclear forces The use of gauge theory as a tool for studying topological properties of four manifolds was pioneered by the fundamental work of Simon Donaldson in the early 1980s and was revolutionized by the introduction of the Seiberg Witten equations in the mid 1990s Since the birth of the subject it has retained its close connection with symplectic topology The analogy between these two fields of study was further underscored by Andreas Floer s construction of an infinite dimensional variant of Morse theory that applies in two a priori different contexts either to define symplectic invariants for pairs of Lagrangian submanifolds of a symplectic manifold or to define topological invariants for three manifolds which fit into a framework for calculating invariants for smooth four manifolds Heegaard Floer homology the recently discovered invariant for three and four manifolds comes from an application of Lagrangian Floer homology to spaces associated to Heegaard diagrams Although this theory is conjecturally isomorphic to Seiberg Witten theory it is more topological and combinatorial in flavor and thus easier to work with in certain contexts The interaction between gauge theory low dimensional topology and symplectic geometry has led to a number of striking new developments in these fields The aim of this volume is to introduce graduate students and researchers in other fields to some of these exciting developments with a special emphasis on the very fruitful interplay between disciplines This volume is based on lecture courses and advanced seminars given at the 2004 Clay Mathematics Institute Summer School at the Alfred Renyi Institute of Mathematics in Budapest Hungary Several of the authors have added a considerable amount of additional material to that presented at the school and the resulting volume provides a state of the art introduction to current research covering material from Heegaard Floer homology contact geometry smooth four manifold topology and symplectic four manifolds *Introduction to Symplectic Topology* Dusa

McDuff,Dietmar Salamon,2017 Over the last number of years powerful new methods in analysis and topology have led to the development of the modern global theory of symplectic topology including several striking and important results This new third edition of a classic book in the feild includes updates and new material to bring the material right up to date **Vector Bundles in Algebraic Geometry** N. J. Hitchin,1995-03-16 This book is a collection of survey articles by the main speakers at the 1993 Durham symposium on vector bundles in algebraic geometry **Chern-Simons Gauge Theory: 20 Years After** Jørgen E. Andersen,Jørgen Ellegaard Andersen,2011 In 1989 Edward Witten discovered a deep relationship between quantum field theory and knot theory and this beautiful discovery created a new field of research called Chern Simons theory This field has the remarkable feature of intertwining a large number of diverse branches of research in mathematics and physics among them low dimensional topology differential geometry quantum algebra functional and stochastic analysis quantum gravity and string theory The 20 year anniversary of Witten s discovery provided an opportunity to bring together researchers working in Chern Simons theory for a meeting and the resulting conference which took place during the summer of 2009 at the Max Planck Institute for Mathematics in Bonn included many of the leading experts in the field This volume documents the activities of the conference and presents several original research articles including another monumental paper by Witten that is sure to stimulate further activity in this and related fields This collection will provide an excellent overview of the current research directions and recent progress in Chern Simons gauge theory **Geometric and Topological Methods for Quantum Field Theory** Hernan Ocampo,Eddy Pariguan,Sylvie Paycha,2010-04-29 Aimed at graduate students in physics and mathematics this book provides an introduction to recent developments in several active topics at the interface between algebra geometry topology and quantum field theory The first part of the book begins with an account of important results in geometric topology It investigates the differential equation aspects of quantum cohomology before moving on to noncommutative geometry This is followed by a further exploration of quantum field theory and gauge theory describing AdS CFT correspondence and the functional renormalization group approach to quantum gravity The second part covers a wide spectrum of topics on the borderline of mathematics and physics ranging from orbifolds to quantum indistinguishability and involving a manifold of mathematical tools borrowed from geometry algebra and analysis Each chapter presents introductory material before moving on to more advanced results The chapters are self contained and can be read independently of the rest *J-holomorphic Curves and Symplectic Topology* Dusa McDuff,Dietmar Salamon,2025-01-03 The theory of J holomorphic curves has been of great importance since its introduction by Gromov in 1985 In mathematics its applications include many key results in symplectic topology It was also one of the main inspirations for the creation of Floer homology In mathematical physics it provides a natural context in which to define Gromov Witten invariants and quantum cohomology two important ingredients of the mirror symmetry conjecture The main goal of this book is to establish the fundamental theorems of the subject in full and rigorous detail In particular the book contains complete

proofs of Gromov s compactness theorem for spheres of the gluing theorem for spheres and of the associativity of quantum multiplication in the semipositive case The book can also serve as an introduction to current work in symplectic topology there are two long chapters on applications one concentrating on classical results in symplectic topology and the other concerned with quantum cohomology The last chapter sketches some recent developments in Floer theory The five appendices of the book provide necessary background related to the classical theory of linear elliptic operators Fredholm theory Sobolev spaces as well as a discussion of the moduli space of genus zero stable curves and a proof of the positivity of intersections of J holomorphic curves in four dimensional manifolds The second edition clarifies various arguments corrects several mistakes in the first edition includes some additional results in Chapter 10 and Appendices C and D and updates the references to recent developments *C∞-Algebraic Geometry with Corners* Kelli Francis-Staite,Dominic Joyce,2024-01-04 Schemes in algebraic geometry can have singular points whereas differential geometers typically focus on manifolds which are nonsingular However there is a class of schemes C schemes which allow differential geometers to study a huge range of singular spaces including infinitesimals and infinite dimensional spaces These are applied in synthetic differential geometry and derived differential geometry the study of derived manifolds Differential geometers also study manifolds with corners The cube is a 3 dimensional manifold with corners with boundary the six square faces This book introduces C schemes with corners singular spaces in differential geometry with good notions of boundary and corners They can be used to define derived manifolds with corners and derived orbifolds with corners These have applications to major areas of symplectic geometry involving moduli spaces of J holomorphic curves This work will be a welcome source of information and inspiration for graduate students and researchers working in differential or algebraic geometry **Lévy Processes in Lie Groups** Ming Liao,2004-05-10 The theory of L vy processes in Lie groups is not merely an extension of the theory of L vy processes in Euclidean spaces Because of the unique structures possessed by non commutative Lie groups these processes exhibit certain interesting limiting properties which are not present for their counterparts in Euclidean spaces These properties reveal a deep connection between the behaviour of the stochastic processes and the underlying algebraic and geometric structures of the Lie groups themselves The purpose of this work is to provide an introduction to L vy processes in general Lie groups the limiting properties of L vy processes in semi simple Lie groups of non compact type and the dynamical behavior of such processes as stochastic flows on certain homogeneous spaces The reader is assumed to be familiar with Lie groups and stochastic analysis but no prior knowledge of semi simple Lie groups is required Permutation Group Algorithms Ákos Seress,2003-03-17 Table of contents *The Geometry of Total Curvature on Complete Open Surfaces* Katsuhiro Shiohama,Takashi Shioya,Minoru Tanaka,2003-11-13 This is a self contained account of how some modern ideas in differential geometry can be used to tackle and extend classical results in integral geometry The authors investigate the influence of total curvature on the metric structure of complete non compact Riemannian 2 manifolds though their work

much of which has never appeared in book form before can be extended to more general spaces Many classical results are introduced and then extended by the authors The compactification of complete open surfaces is discussed as are Busemann functions for rays Open problems are provided in each chapter and the text is richly illustrated with figures designed to help the reader understand the subject matter and get intuitive ideas about the subject The treatment is self contained assuming only a basic knowledge of manifold theory so is suitable for graduate students and non specialists who seek an introduction to this modern area of differential geometry   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 Asymptotic Geometry of $mathrm {G}_2$-Monopoles Daniel Fadel,Ákos Nagy,Gonçalo Oliveira,2025-01-08 View the abstract   *Harmonic Maps, Conservation Laws and Moving Frames* Frédéric Hélein,2002-06-13 Publisher Description   *Dualizable Tensor Categories* Christopher L. Douglas,Christopher Schommer-Pries,Noah Snyder,2021-06-18 We investigate the relationship between the algebra of tensor categories and the topology of framed 3 manifolds On the one hand tensor categories with cer tain algebraic properties determine topological invariants We prove that fusion categories of nonzero global dimension are 3 dualizable and therefore provide 3 dimensional 3 framed local eld theories We also show that all nite tensor cat egories are 2 dualizable and yield categori ed 2 dimensional 3 framed local eld theories On the other hand topological properties of 3 framed manifolds deter mine algebraic equations among functors of tensor categories We show that the 1 dimensional loop bordism which exhibits a single full rotation acts as the double dual autofunctor of a tensor category We prove that the 2 dimensional belt trick bordism which unravels a double rotation operates on any nite tensor category and therefore supplies a trivialization of the quadruple dual This approach pro duces a quadruple dual theorem for suitably dualizable objects in any symmetric monoidal 3 category There is furthermore a correspondence between algebraic structures on tensor categories and homotopy xed point structures which in turn provide structured eld theories we describe the expected connection between piv otal tensor categories and combed xed point structures and between spherical tensor categories and oriented xed point structures   **Harmonic Mappings in the**

Plane Peter Duren,2004-03-29 Harmonic mappings in the plane are univalent complex valued harmonic functions of a complex variable Conformal mappings are a special case where the real and imaginary parts are conjugate harmonic functions satisfying the Cauchy Riemann equations Harmonic mappings were studied classically by differential geometers because they provide isothermal or conformal parameters for minimal surfaces More recently they have been actively investigated by complex analysts as generalizations of univalent analytic functions or conformal mappings Many classical results of geometric function theory extend to harmonic mappings but basic questions remain unresolved This book is the first comprehensive account of the theory of planar harmonic mappings treating both the generalizations of univalent analytic functions and the connections with minimal surfaces Essentially self contained the book contains background material in complex analysis and a full development of the classical theory of minimal surfaces including the Weierstrass Enneper representation It is designed to introduce non specialists to a beautiful area of complex analysis and geometry Equivalence and Duality for Module Categories with Tilting and Cotilting for Rings Robert R. Colby,Kent R. Fuller,2004-03-22 This book provides a unified approach to much of the theories of equivalence and duality between categories of modules that has transpired over the last 45 years In particular during the past dozen or so years many authors including the authors of this book have investigated relationships between categories of modules over a pair of rings that are induced by both covariant and contravariant representable functors in particular by tilting and cotilting theories By here collecting and unifying the basic results of these investigations with innovative and easily understandable proofs the authors aim is to provide an aid to further research in this central topic in abstract algebra and a reference for all whose research lies in this field The Covering Property Axiom, CPA Krzysztof Ciesielski,Janusz Pawlikowski,2004-08-23 Here the authors formulate and explore a new axiom of set theory CPA the Covering Property Axiom CPA is consistent with the usual ZFC axioms indeed it is true in the iterated Sacks model and actually captures the combinatorial core of this model A plethora of results known to be true in the Sacks model easily follow from CPA Replacing iterated forcing arguments with deductions from CPA simplifies proofs provides deeper insight and leads to new results One may say that CPA is similar in nature to Martin s axiom as both capture the essence of the models of ZFC in which they hold The exposition is self contained and there are natural applications to real analysis and topology Researchers who use set theory in their work will find much of interest in this book Finite Packing and Covering K. Böröczky,2004-08-02 This book provides an in depth discussion of the theory of finite packings and coverings by convex bodies

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