

AN EXTENSION
OF CASSON'S INVARIANT

BY
KEVIN WALKER

ANNALS OF MATHEMATICS STUDIES
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An Extension Of Cassons Invariant

**Jørgen E. Andersen, Jørgen Ellegaard
Andersen**



An Extension Of Cassons Invariant:

An Extension of Casson's Invariant Kevin Walker, 1992-03-23 This book describes an invariant I of oriented rational homology 3 spheres which is a generalization of work of Andrew Casson in the integer homology sphere case. Let $R(X)$ denote the space of conjugacy classes of representations of $\pi_1(X)$ into $SU(2)$. Let $W = W_1 \cup F$ be a Heegaard splitting of a rational homology sphere M . Then $I(M)$ is declared to be an appropriately defined intersection number of $R(W)$ and $R(W)$ inside $R(F)$. The definition of this intersection number is a delicate task as the spaces involved have singularities. A formula describing how I transforms under Dehn surgery is proved. The formula involves Alexander polynomials and Dedekind sums and can be used to give a rather elementary proof of the existence of I . It is also shown that when M is a $\mathbb{Z}$ homology sphere $I(M)$ determines the Rochlin invariant of M .

An Extension of Casson's Invariant. (AM-126), Volume 126 Kevin Walker, 2016-03-02 This book describes an invariant I of oriented rational homology 3 spheres which is a generalization of work of Andrew Casson in the integer homology sphere case. Let $R(X)$ denote the space of conjugacy classes of representations of $\pi_1(X)$ into $SU(2)$. Let $W = W_1 \cup F$ be a Heegaard splitting of a rational homology sphere M . Then $I(M)$ is declared to be an appropriately defined intersection number of $R(W)$ and $R(W)$ inside $R(F)$. The definition of this intersection number is a delicate task as the spaces involved have singularities. A formula describing how I transforms under Dehn surgery is proved. The formula involves Alexander polynomials and Dedekind sums and can be used to give a rather elementary proof of the existence of I . It is also shown that when M is a $\mathbb{Z}$ homology sphere $I(M)$ determines the Rochlin invariant of M .

Global Surgery Formula for the Casson-Walker Invariant Christine Lescop, 1996-01-11 This book presents a new result in 3 dimensional topology. It is well known that any closed oriented 3 manifold can be obtained by surgery on a framed link in S^3 . In *Global Surgery Formula for the Casson-Walker Invariant* a function F of framed links in S^3 is described and it is proven that F consistently defines an invariant $\lambda(I)$ of closed oriented 3 manifolds. I is then expressed in terms of previously known invariants of 3 manifolds. For integral homology spheres I is the invariant introduced by Casson in 1985 which allowed him to solve old and famous questions in 3 dimensional topology. I becomes simpler as the first Betti number increases. As an explicit function of Alexander polynomials and surgery coefficients of framed links the function F extends in a natural way to framed links in rational homology spheres. It is proven that F describes the variation of I under any surgery starting from a rational homology sphere. Thus F yields a global surgery formula for the Casson invariant.

The Generalized Casson Invariant for Two-fold Branched Covers of the Three-sphere and the Jones Polynomial David T. Mullins, 1990 [Invariants of Homology 3-Spheres](#) Nikolai Saveliev, 2013-04-17 Homology 3 sphere is a closed 3 dimensional manifold whose homology equals that of the 3 sphere. These objects may look rather special but they have played an outstanding role in geometric topology for the past fifty years. The book gives a systematic exposition of diverse ideas and methods in the area from algebraic topology of manifolds to invariants arising from quantum field theories. The main topics covered are constructions and classification of homology 3

spheres Rokhlin invariant Casson invariant and its extensions including invariants of Walker and Lescop Herald and Lin invariants of knots and equivariant Casson invariants Floer homology and gauge theoretical invariants of homology cobordism Many of the topics covered in the book appear in monograph form for the first time The book gives a rather broad overview of ideas and methods and provides a comprehensive bibliography It will be appealing to both graduate students and researchers in mathematics and theoretical physics

Quantum Invariants Tomotada Ohtsuki, 2002 This book provides an extensive and self contained presentation of quantum and related invariants of knots and 3 manifolds Polynomial invariants of knots such as the Jones and Alexander polynomials are constructed as quantum invariants i e invariants derived from representations of quantum groups and from the monodromy of solutions to the Knizhnik Zamolodchikov equation With the introduction of the Kontsevich invariant and the theory of Vassiliev invariants the quantum invariants become well organized Quantum and perturbative invariants the LMO invariant and finite type invariants of 3 manifolds are discussed The ChernOCosimons field theory and the WessOCozuminoOCowitten model are described as the physical background of the invariants Contents Knots and Polynomial Invariants Braids and Representations of the Braid Groups Operator Invariants of Tangles via Sliced Diagrams Ribbon Hopf Algebras and Invariants of Links Monodromy Representations of the Braid Groups Derived from the KnizhnikOCozamolodchikov Equation The Kontsevich Invariant Vassiliev Invariants Quantum Invariants of 3 Manifolds Perturbative Invariants of Knots and 3 Manifolds The LMO Invariant Finite Type Invariants of Integral Homology 3 Spheres Readership Researchers lecturers and graduate students in geometry topology and mathematical physics

Lecture Notes On Knot Invariants Weiping Li, 2015-08-21 The volume is focused on the basic calculation skills of various knot invariants defined from topology and geometry It presents the detailed Hecke algebra and braid representation to illustrate the original Jones polynomial rather than the algebraic formal definition many other books and research articles use and provides self contained proofs of the Tait conjecture one of the big achievements from the Jones invariant It also presents explicit computations to the Casson Lin invariant via braid representations With the approach of an explicit computational point of view on knot invariants this user friendly volume will benefit readers to easily understand low dimensional topology from examples and computations rather than only knowing terminologies and theorems

The Wild World of 4-Manifolds Alexandru Scorpan, 2022-01-26 What a wonderful book I strongly recommend this book to anyone especially graduate students interested in getting a sense of 4 manifolds MAA Reviews The book gives an excellent overview of 4 manifolds with many figures and historical notes Graduate students nonexperts and experts alike will enjoy browsing through it Robion C Kirby University of California Berkeley This book offers a panorama of the topology of simply connected smooth manifolds of dimension four Dimension four is unlike any other dimension it is large enough to have room for wild things to happen but small enough so that there is no room to undo the wildness For example only manifolds of dimension four can exhibit infinitely many distinct smooth structures Indeed their topology remains the least understood today To put

things in context the book starts with a survey of higher dimensions and of topological 4 manifolds In the second part the main invariant of a 4 manifold the intersection form and its interaction with the topology of the manifold are investigated In the third part as an important source of examples complex surfaces are reviewed In the final fourth part of the book gauge theory is presented this differential geometric method has brought to light how unwieldy smooth 4 manifolds truly are and while bringing new insights has raised more questions than answers The structure of the book is modular organized into a main track of about two hundred pages augmented by extensive notes at the end of each chapter where many extra details proofs and developments are presented To help the reader the text is peppered with over 250 illustrations and has an extensive index

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

An Extension of Casson's Invariant to Rational Homology Spheres Kevin Michael Walker, 1989

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