Symplectic Cobordism
and the Computation of Stable Stems

Stanley O. Kochman

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Neal W. Stoltzfus

Symplectic Cobordism And The Computation Of Stable Stems:

   Symplectic Cobordism and the Computation of Stable Stems Stanley O. Kochman,1993 This memoir consists of two independent papers In the first The symplectic cobordism ring III the classical Adams spectral sequence is used to study the symplectic cobordism ring capital Greek Omega superscript over subscript italic capital S subscript italic p In the second The symplectic Adams Novikov spectral sequence for spheres we analyze the symplectic Adams Novikov spectral sequence converging to the stable homotopy groups of spheres   **Stable Homotopy Around the Arf-Kervaire Invariant** Victor P. Snaith,2009-03-28 Were I to take an iron gun And re it o towards the sun I grant twould reach its mark at last But not till many years had passed But should that bullet change its force And to the planets take its course Twould never reach the nearest star Because it is so very far from FACTS by Lewis Carroll 55 Let me begin by describing the two purposes which prompted me to write this monograph This is a book about algebraic topology and more especially about homotopy theory Since the inception of algebraic topology 217 the study of homotopy classes of continuous maps between spheres has enjoyed a very exc n n tional central role As is well known for homotopy classes of maps f S S with n 1 the sole homotopy invariant is the degree which characterises the homotopy class completely The search for a continuous map between spheres of di erent dimensions and not homotopic to the constant map had to wait for its resolution until the remarkable paper of Heinz Hopf 111 In retrospect nding 3 an example was rather easy because there is a canonical quotient map from S to 3 1 1 2 theorbitspaceofthe freecircleactionS S CP S   Manifolds and K-Theory Gregory Arone,Brenda Johnson,Pascal Lambrechts,Brian A. Munson,Ismar Volić,2017-01-24 This volume contains the proceedings of the conference on Manifolds Theory and Related Topics held from June 23 27 2014 in Dubrovnik Croatia The articles contained in this volume are a collection of research papers featuring recent advances in homotopy theory theory and their applications to manifolds Topics covered include homotopy and manifold calculus structured spectra and their applications to group theory and the geometry of manifolds This volume is a tribute to the influence of Tom Goodwillie in these fields   An Alpine Bouquet of Algebraic Topology Jérôme Scherer,2018-05-30 This volume contains the proceedings of the Alpine Algebraic and Applied Topology Conference held from August 15 21 2016 in Saas Almagell Switzerland The papers cover a broad range of topics in modern algebraic topology including the theory of highly structured ring spectra infinity categories and Segal spaces equivariant homotopy theory algebraic theory and topological cyclic periodic or Hochschild homology intersection cohomology and symplectic topology   Subgroup Lattices and Symmetric Functions Lynne M. Butler,1994 This work presents foundational research on two approaches to studying subgroup lattices of finite abelian p groups The first approach is linear algebraic in nature and generalizes Knuth s study of subspace lattices This approach yields a combinatorial interpretation of the Betti polynomials of these Cohen Macaulay posets The second approach which employs Hall Littlewood symmetric functions exploits properties of Kostka polynomials to obtain enumerative results such as rank unimodality Butler completes Lascoux

and Sch tzenberger s proof that Kostka polynomials are nonnegative then discusses their monotonicity result and a conjecture on Macdonald s two variable Kostka functions   *Gorenstein Quotient Singularities in Dimension Three* Stephen Shing-Toung Yau,Yung Yu,1993 In chapter one we address the classification of finite subgroups of italic capitals SL bold 3 double struck capital C This is followed by a general method to find invariant polynomials and their relations of finite subgroups of italic capitals GL bold 3 double struck capital C Lastly we recall some properties of quotient varieties and prove that double struck capital C3 italic capital G has isolated singularities if and only if italic capital G is abelian and 1 is not an eigenvalue of g in italic capital G   **Second-Order Sturm-Liouville Difference Equations and Orthogonal Polynomials** Alouf Jirari,1995 This memoir presents machinery for analyzing many discrete physical situations and should be of interest to physicists engineers and mathematicians We develop a theory for regular and singular Sturm Liouville boundary value problems for difference equations generalizing many of the known results for differential equations We discuss the self adjointness of these problems as well as their abstract spectral resolution in the appropriate italic capital L2 setting and give necessary and sufficient conditions for a second order difference operator to be self adjoint and have orthogonal polynomials as eigenfunctions   *Orthogonal Decompositions and Functional Limit Theorems for Random Graph Statistics* Svante Janson,1994 We define an orthogonal basis in the space of real valued functions of a random graph and prove a functional limit theorem for this basis Limit theorems for other functions then follow by decomposition The results include limit theorems for the two random graph models italic G subscript italic n subscript italic p and italic G subscript italic n subscript italic m as well as functional limit theorems for the evolution of a random graph and results on the maximum of a function during the evolution Both normal and non normal limits are obtained As examples applications are given to subgraph counts and to vertex degrees   **Theory and Applications of Holomorphic Functions on Algebraic Varieties over Arbitrary Ground Fields** Oscar Zariski,1951   *The Kinematic Formula in Riemannian Homogeneous Spaces* Ralph Howard,1993 This memoir investigates a method that generalizes the Chern Federer kinematic formula to arbitrary homogeneous spaces with an invariant Riemannian metric and leads to new formulas even in the case of submanifolds of Euclidean space   *Unraveling the Integral Knot Concordance Group* Neal W. Stoltzfus,1977 The group of concordance classes of high dimensional homotopy spheres knotted in codimension two in the standard sphere has an intricate algebraic structure which this paper unravels The first level of invariants is given by the classical Alexander polynomial By means of a transfer construction the integral Seifert matrices of knots whose Alexander polynomial is a power of a fixed irreducible polynomial are related to forms with the appropriate Hermitian symmetry on torsion free modules over an order in the algebraic number field determined by the Alexander polynomial This group is then explicitly computed in terms of standard arithmetic invariants In the symmetric case this computation shows there are no elements of order four with an irreducible Alexander polynomial Furthermore the order is not necessarily Dedekind and non projective modules can

occur The second level of invariants is given by constructing an exact sequence relating the global concordance group to the individual pieces described above The integral concordance group is then computed by a localization exact sequence relating it to the rational group computed by J Levine and a group of torsion linking forms   _Deformation Quantization for Actions of R^d_ Marc Aristide Rieffel,1993 This work describes a general construction of a deformation quantization for any Poisson bracket on a manifold which comes from an action of R d on that manifold These deformation quantizations are strict in the sense that the deformed product of any two functions is again a function and that there are corresponding involutions and operator norms Many of the techniques involved are adapted from the theory of pseudo differential operators The construction is shown to have many favorable properties A number of specific examples are described ranging from basic ones such as quantum disks quantum tori and quantum spheres to aspects of quantum groups   **Higher Spinor Classes** J. F. Jardine,1994 This work defines the higher spinor classes of an orthogonal representation of a Galois group These classes are higher degree analogues of the Fr hlich spinor class which quantify the difference between the Stiefel Whitney classes of an orthogonal representation and the Hasse Witt classes of the associated form Jardine establishes various basic properties including vanishing in odd degrees and an induction formula for quadratic field extensions The methods used include the homotopy theory of simplicial presheaves and the action of the Steenrod algebra on mod 2 tale cohomology   _Continuous Images of Arcs and Inverse Limit Methods_ Jacek Nikiel,H. M. Tuncali,E. D. Tymchatyn,1993 Continuous images of ordered continua are investigated The paper gives various properties of their monotone images and inverse limits of their inverse systems or sequences with monotone bonding surjections Some factorization theorems are provided Special attention is given to one dimensional spaces which are continuous images of arcs and among them various classes of rim finite continua The methods of proofs include cyclic element theory T set approximations and null family decompositions The paper brings also new properties of cyclic elements and T sets in locally connected continua in general   **Molecular Propagation through Electron Energy Level Crossings** George Allan Hagedorn,1994 The principal results of this paper involve the extension of the time dependent Born Oppenheimer approximation to accommodate the propagation of nuclei through generic minimal multiplicity electron energy level crossings The Born Oppenheimer approximation breaks down at electron energy level crossings which are prevalent in molecular systems We classify generic minimal multiplicity level crossings and derives a normal form for the electron Hamiltonian near each type of crossing We then extend the time dependent Born Oppenheimer approximation to accommodate the propagation of nuclei through each type of electron energy level crossing

An Index of a Graph with Applications to Knot Theory Kunio Murasugi,Józef Przytycki,1993 There are three chapters to the memoir The first defines and develops the notion of the index of a graph The next chapter presents the general application of the graph index to knot theory The last section is devoted to particular examples such as determining the braid index of alternating pretzel links A second result shows that for an alternating knot with Alexander polynomial having leading

coefficient less than 4 in absolute value the braid index is determined by polynomial invariants *Extensions of the Jacobi Identity for Vertex Operators, and Standard $A^{(1)}_1$-Modules* Cristiano Husu,1993 The main axiom for a vertex operator algebra over a field of characteristic zero the Jacobi identity is extended to multi operator identities Then relative bold capital Z2 twisted vertex operators are introduced and a Jacobi identity for these operators is established Then these ideas are used to interpret and recover the twisted bold capital Z operators and corresponding generating function identities developed by Lepowsky and R L Wilson This work is closely related to the twisted parafermion algebra constructed by Zamolodchikov Fateev *Rankin-Selberg Convolutions for $\mathrm{SO}_{2\ell+1}\times \mathrm{GL}_n$: Local Theory* David Soudry,1993 On t p o2olo o1 and on are subscript *On the Correlation of Multiplicative and the Sum of Additive Arithmetic Functions* Peter D. T. A. Elliott,1994 The correlation of multiplicative arithmetic functions on distinct arithmetic progressions and with values in the complex unit disc cannot be continually near to its possible maximum unless each function is either very close to or very far from a generalized character Moreover under accessible condition the second possibility can be ruled out As a consequence analogs of the standard limit theorems in probabilistic number theory are obtained with the classical single additive function on the integers replaced by a sum of two additive functions on distinct arithmetic progressions **Automorphisms of the Lattice of Recursively Enumerable Sets** Peter Cholak,1995 A version of Harrington s capital Greek Delta3 automorphism technique for the lattice of recursively enumerable sets is introduced and developed by reproving Soare s Extension Theorem Then this automorphism technique is used to show two technical theorems the High Extension Theorem I and the High Extension Theorem II This is a degree theoretic technique for constructing both automorphisms of the lattice of r e sets and isomorphisms between various substructures of the lattice

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