

Spinor fields classification in arbitrary dimensions and new classes of spinor fields on 7-manifolds

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ABSTRACT: A classification of spinor fields according to the associated bilinear covariants is constructed in arbitrary dimensions and metric signatures, generalizing Lounesto's 4D spinor field classification. In such a generalized classification a basic role is played by the geometric Fierz identities. In 4D Minkowski spacetime the standard bilinear covariants can be either null or non-null — with the exception of the current density which is invariably different from zero for physical reasons — and sweep all types of spinor fields, including Dirac, Weyl, Majorana and more generally flagpoles, flag-dipoles and dipole spinor fields. To obtain an analogous classification in higher dimensions we use the Fierz identities, which constrain the covariant bilinears in the spinor fields and force some of them to vanish. A generalized graded Fierz aggregate is moreover obtained in such a context simply from the completeness relation. We analyze the particular and important case of Riemannian 7-manifolds, where the Majorana spinor fields turn out to have a quite special place. In particular, at variance with spinor fields in 4D Minkowski spacetime that are classified in six disjoint classes, spinors in Riemannian 7-manifolds are shown to be classified, according to the bilinear covariants: (a) in just one class, in the real case of Majorana spinors; (b) in four classes, in the most general case. Much like new classes of spinor fields in 4D Minkowski spacetime have been evincing new possibilities in physics, we think these new classes of spinor fields in seven dimensions are, in particular, potential candidates for new solutions in the compactification of supergravity on a seven-dimensional manifold and its exotic versions.

KEYWORDS: Differential and Algebraic Geometry, M-Theory

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Higher Spinor Classes

Jayme Vaz Jr., Roldão da Rocha Jr.



Higher Spinor Classes:

An Introduction to Clifford Algebras and Spinors Jayme Vaz Jr., Roldão da Rocha Jr., 2016 This book is unique compared to the existing literature It is very didactical and accessible to both students and researchers without neglecting the formal character and the deep algebraic completeness of the topic along with its physical applications *Higher Multiplicities and Almost Free Divisors and Complete Intersections* James Damon, 1996 Almost free divisors and complete intersections form a general class of nonisolated hypersurface and complete intersection singularities They also include discriminants of mappings bifurcation sets and certain types of arrangements of hyperplanes such as Coxeter arrangements and generic arrangements Associated to the singularities of this class is a singular Milnor fibration which has the same homotopy properties as the Milnor fibration for isolated singularities This memoir deduces topological properties of singularities in a number of situations including complements of hyperplane arrangements various nonisolated complete intersections nonlinear arrangements of hypersurfaces functions on discriminants singularities defined by compositions of functions and bifurcation sets **The Full Set of Unitarizable Highest Weight Modules of Basic Classical Lie Superalgebras** Hans Plesner Jakobsen, 1994 This work contains a complete description of the set of all unitarizable highest weight modules of classical Lie superalgebras Unitarity is defined in the superalgebraic sense and all the algebras are over the complex numbers Part of the classification determines which real forms defined by anti linear anti involutions may occur Although there have been many investigations for some special superalgebras this appears to be the first systematic study of the problem *An Arithmetic Riemann-Roch Theorem for Singular Arithmetic Surfaces* Wayne Aitken, 1996 The following gives a development of Arakelov theory general enough to handle not only regular arithmetic surfaces but also a large class of arithmetic surfaces whose generic fiber has singularities This development culminates in an arithmetic Riemann Roch theorem for such arithmetic surfaces The first part of the memoir gives a treatment of Deligne's functorial intersection theory and the second develops a class of intersection functions for singular curves which behaves analogously to the canonical Green's functions introduced by Arakelov for smooth curves **Hilbert's Projective Metric and Iterated Nonlinear Maps** Roger D. Nussbaum, 1988 Factorizing the Classical Inequalities Grahame Bennett, 1996 This memoir describes a new way of looking at the classical inequalities The most famous such results those of Hilbert Hardy and Copson may be interpreted as inclusion relationships $l^p \subset Y$ between certain Banach sequence spaces the norm of the injection being the best constant of the particular inequality The inequalities of Hilbert Hardy and Copson all share the same space Y That space alias l^p is central to many celebrated inequalities and thus is studied here in considerable detail Wavelet Methods for Pointwise Regularity and Local Oscillations of Functions Stéphane Jaffard, Yves Meyer, 1996 We investigate several topics related to the local behavior of functions pointwise Hölder regularity local scaling invariance and very oscillatory chirp like behaviors Our main tool is to

relate these notions to two microlocal conditions which are defined either on the Littlewood Paley decomposition or on the wavelet transform We give characterizations and the main properties of these two microlocal spaces and we give several applications such as bounds on the dimension of the set of Hölder singularities of a function Sobolev regularity of trace functions and chirp expansions of specific functions

Classification of Direct Limits of Even Cuntz-Circle Algebras Huaxin Lin, Norman Christopher Phillips, 1995 We prove a classification theorem for purely infinite C^{*} algebras that is strong enough to show that the tensor products of two different irrational rotation algebras with the same even Cuntz algebra are isomorphic

Springer Handbook of Spacetime Abhay Ashtekar, Vesselin Petkov, 2014-09-01 The Springer Handbook of Spacetime is dedicated to the ground breaking paradigm shifts embodied in the two relativity theories and describes in detail the profound reshaping of physical sciences they ushered in It includes in a single volume chapters on foundations on the underlying mathematics on physical and astrophysical implications experimental evidence and cosmological predictions as well as chapters on efforts to unify general relativity and quantum physics The Handbook can be used as a desk reference by researchers in a wide variety of fields not only by specialists in relativity but also by researchers in related areas that either grew out of or are deeply influenced by the two relativity theories cosmology astronomy and astrophysics high energy physics quantum field theory mathematics and philosophy of science It should also serve as a valuable resource for graduate students and young researchers entering these areas and for instructors who teach courses on these subjects The Handbook is divided into six parts Part A Introduction to Spacetime Structure Part B Foundational Issues Part C Spacetime Structure and Mathematics Part D Confronting Relativity theories with observations Part E General relativity and the universe Part F Spacetime beyond Einstein

The Method of Layer Potentials for the Heat Equation in Time-Varying Domains John L. Lewis, Margaret Anne Marie Murray, 1995 This memoir consists of three papers in which we develop the method of layer potentials for the heat equation in time varying domains In Chapter I we show certain singular integral operators on L^p are bounded in Chapter II we develop a modification of the David buildup scheme to obtain L^p boundedness of the double layer heat potential on the boundary of our domains In Chapter III we use the results of the first two chapters to show the mutual absolute continuity of parabolic measure and a certain projective Lebesgue measure

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 Frobenius 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 étale cohomology

Filtrations on the Homology of Algebraic Varieties Eric M. Friedlander, Barry Mazur, 1994 This work provides a detailed exposition of a classical topic from a very recent viewpoint

Friedlander and Mazur describe some foundational aspects of Lawson homology for complex projective algebraic varieties a homology theory defined in terms of homotopy groups of spaces of algebraic cycles Attention is paid to methods of group completing abelian topological monoids The authors study properties of Chow varieties especially in connection with algebraic correspondences relating algebraic varieties Operations on Lawson homology are introduced and analysed These operations lead to a filtration on the singular homology of algebraic varieties which is identified in terms of correspondences and related to classical filtrations of Hodge and Grothendieck Hilbert Modules over Operator Algebras Paul S.

Muhly, Baruch Solel, 1995 Addresses the three dimensional generalization of category offering a full definition of tricategory a proof of the coherence theorem for tricategories and a modern source of material on Gray's tensor product of 2 categories Of interest to research mathematicians theoretical physicists algebraic topologists 3 D computer scientists and theoretical computer scientists Society members 19 00 No index Annotation copyright by Book News Inc Portland OR **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 Schützenberger's proof that Kostka polynomials are nonnegative then discusses their monotonicity result and a conjecture on Macdonald's two variable Kostka functions The Major Counting of Nonintersecting Lattice Paths and Generating Functions for Tableaux Christian Krattenthaler, 1995 A theory of counting nonintersecting lattice paths by the major index and its generalizations is developed We obtain determinantal expressions for the corresponding generating functions for families of nonintersecting lattice paths with given starting points and given final points where the starting points lie on a line parallel to $x = y = 0$ In some cases these determinants can be evaluated to result in simple products As applications we compute the generating function for tableaux with p odd rows with at most c columns and with parts between 1 and n Moreover we compute the generating function for the same kind of tableaux which in addition have only odd parts We thus also obtain a closed form for the generating function for symmetric plane partitions with at most n rows with parts between 1 and c and with p odd entries on the main diagonal In each case the result is a simple product By summing with respect to p we provide new proofs of the Bender Knuth and MacMahon ex conjectures which were first proved by Andrews Gordon and Macdonald The link between nonintersecting lattice paths and tableaux is given by variations of the Knuth correspondence On the Classification of C^* -algebras of Real Rank Zero: Inductive Limits of Matrix Algebras over Non-Hausdorff Graphs Hongbing Su, 1995 In this paper a K theoretic classification is given of the real rank zero C^* algebras that can be expressed as inductive limits of sequences of finite direct sums of matrix algebras over

finite connected graphs possibly with multiple vertices The special case that the graphs are circles is due to Elliott

Advances in Cryptology - ASIACRYPT 2024 Kai-Min Chung, Yu Sasaki, 2024-12-13 The 9 volume set LNCS 15484 15492 constitutes the refereed proceedings of the 30th International Conference on the Theory and Application of Cryptology and Information Security ASIACRYPT 2024 which took place in Kolkata India during December 9-13 2024 The 127 full papers included in the proceedings were carefully reviewed and selected from 433 submissions They were organized in topical sections as follows Advances Primitives homomorphic encryption digital signatures public key cryptography pairing based cryptography threshold cryptography isogeny based cryptography post quantum cryptography secure data structures lattice based cryptography lattice assumptions key exchange protocols succinct arguments verifiable computation zero knowledge protocols secure multiparty computation blockchain protocols information theoretic cryptography secret sharing security against physical attacks cryptanalysis on symmetric key schemes cryptanalysis on public key schemes fault attacks and side channel analysis cryptanalysis on various problems quantum cryptanalysis quantum cryptography symmetric key cryptography

Topological Methods in Galois Representation Theory Victor P. Snaith, 2014-01-15 An advanced monograph on Galois representation theory by one of the world's leading algebraists this volume is directed at mathematics students who have completed a graduate course in introductory algebraic topology Topics include Abelian and nonabelian cohomology of groups characteristic classes of forms and algebras explicit Brauer induction theory and much more 1989 edition

Quadratic and Higher Degree Forms Krishnaswami Alladi, Manjul Bhargava, David Savitt, Pham Huu Tiep, 2013-08-13 In the last decade the areas of quadratic and higher degree forms have witnessed dramatic advances This volume is an outgrowth of three seminal conferences on these topics held in 2009 two at the University of Florida and one at the Arizona Winter School The volume also includes papers from the two focused weeks on quadratic forms and integral lattices at the University of Florida in 2010 Topics discussed include the links between quadratic forms and automorphic forms representation of integers and forms by quadratic forms connections between quadratic forms and lattices and algorithms for quaternion algebras and quadratic forms The book will be of interest to graduate students and mathematicians wishing to study quadratic and higher degree forms as well as to established researchers in these areas Quadratic and Higher Degree Forms contains research and semi expository papers that stem from the presentations at conferences at the University of Florida as well as survey lectures on quadratic forms based on the instructional workshop for graduate students held at the Arizona Winter School The survey papers in the volume provide an excellent introduction to various aspects of the theory of quadratic forms starting from the basic concepts and provide a glimpse of some of the exciting questions currently being investigated The research and expository papers present the latest advances on quadratic and higher degree forms and their connections with various branches of mathematics

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 $G_{n,p}$ and $G_{n,m}$ 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.

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