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A New Construction of Homogeneous Quaternionic Manifolds and Related Geometric Structures

Vicente Cortés



American Mathematical Society

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New Construction Of Homogeneous Quaternionic Manifolds And Related Geometric Structures:

A New Construction of Homogeneous Quaternionic Manifolds and Related Geometric Structures Vicente Cortés, 2000 Let V be the pseudo Euclidean vector space of signature (p, q) with $p + q \geq 3$ and W a module over the even Clifford algebra $C_{ell} 0 V$. A homogeneous quaternionic manifold M/Q is constructed for any $\mathfrak{spin} V$ equivariant linear map $\Pi: \wedge^2 W \rightarrow V$. If the skew symmetric vector valued bilinear form Π is nondegenerate then M/Q is endowed with a canonical pseudo Riemannian metric g such that $M/Q, g$ is a homogeneous quaternionic pseudo Kahler manifold. If the metric g is positive definite i.e. a Riemannian metric then the quaternionic Kahler manifold $M/Q, g$ is shown to admit a simply transitive solvable group of automorphisms. In this special case $p = 3$ we recover all the known homogeneous quaternionic Kahler manifolds of negative scalar curvature. Alekseevsky spaces in a unified and direct way. If $p = 3$ then M does not admit any transitive action of a solvable Lie group and we obtain new families of quaternionic pseudo Kahler manifolds. Then it is shown that for $q = 0$ the noncompact quaternionic manifold M/Q can be endowed with a Riemannian metric h such that $M/Q, h$ is a homogeneous quaternionic Hermitian manifold which does not admit any transitive solvable group of isometries if $p = 3$. The twistor bundle $Z \rightarrow M$ and the canonical $\mathrm{SO}(3)$ principal bundle $S \rightarrow M$ associated to the quaternionic manifold M/Q are shown to be homogeneous under the automorphism group of the base. More specifically the twistor space is a homogeneous complex manifold carrying an invariant holomorphic distribution \mathcal{D} of complex codimension one which is a complex contact structure if and only if Π is nondegenerate. Moreover an equivariant open holomorphic immersion $Z \rightarrow \bar{Z}$ into a homogeneous complex manifold \bar{Z} of complex algebraic group is constructed. Finally the construction is shown to have a natural mirror in the category of supermanifolds. In fact for any $\mathfrak{spin} V$ equivariant linear map $\Pi: \vee^2 W \rightarrow V$ a homogeneous quaternionic supermanifold M/Q is constructed and moreover a homogeneous quaternionic pseudo Kahler supermanifold $M/Q, g$ if the symmetric vector valued bilinear form Π is nondegenerate.

A New Construction of Homogeneous Quaternionic Manifolds and Related Geometric Structures Vicente Cortés, 1998

A New Construction of Homogeneous Quaternionic Manifolds and Related Geometric Structures Vicente Cortés Suárez, 1998

Quaternionic Structures in Mathematics and Physics Stefano

Marchiafava, Paolo Piccinni, Massimiliano Pontecorvo, 2001 During the last five years after the first meeting on OC Quaternionic Structures in Mathematics and Physics interest in quaternionic geometry and its applications has continued to increase. Progress has been made in constructing new classes of manifolds with quaternionic structures: quaternionic Kähler, hyper Kähler, hyper complex etc. studying the differential geometry of special classes of such manifolds and their submanifolds, understanding relations between the quaternionic structure and other differential geometric structures and also in physical applications of quaternionic geometry. Some generalizations of classical quaternion like structures like HKT structures and hyper Kähler manifolds with singularities appeared naturally and were studied. Some of

those results are published in this book

Contents

Hypercomplex Structures on Special Classes of Nilpotent and Solvable Lie Groups M L Barberis

Twistor Quotients of HyperKähler Manifolds R Bielawski

Quaternionic Contact Structures O Biquard

A New Construction of Homogeneous Quaternionic Manifolds and Related Geometric Structures V Cortes

Quaternion Kähler Flat Manifolds I G Dotti

A Canonical HyperKähler Metric on the Total Space of a Cotangent Bundle D Kaledin

Special Spinors and Contact Geometry A Moroianu

Brane Solitons and Hypercomplex Structures G Papadopoulos

Hypercomplex Geometry H Pedersen

Examples of HyperKähler Connections with Torsion Y S Poon

A New Weight System on Chord Diagrams via HyperKähler Geometry J Sawon

Vanishing Theorems for Quaternionic Kähler Manifolds U Semmelmann

Weakening Holonomy A Swann

Special Kähler Geometry A Van Proeyen

Singularities in HyperKähler Geometry M Verbitsky and other papers

Readership Researchers and graduate students in geometry topology mathematical physics and theoretical physics

Desingularization of Nilpotent Singularities in Families of Planar Vector Fields Daniel Panazzolo, 2002 This work aims to prove a desingularization theorem for analytic families of two dimensional vector fields under the hypothesis that all its singularities have a non vanishing first jet Application to problems of singular perturbations and finite cyclicity are discussed in the last chapter

Strong Boundary Values, Analytic Functionals, and Nonlinear Paley-Wiener Theory

Jean-Pierre Rosay, Edgar Lee Stout, 2001 This work is intended for graduate students and research mathematicians interested in functional analysis several complex variables analytic spaces and differential equations

Blowing Up of

Non-Commutative Smooth Surfaces M. van den Bergh, 2001 This book is intended for graduate students and research mathematicians interested in associative rings and algebras and noncommutative geometry

Tilings of the Plane,

Hyperbolic Groups and Small Cancellation Conditions Milé Krajčevski, 2001 This book is intended for graduate students and research mathematicians interested in group theory and generalizations

Gorenstein Liaison, Complete Intersection

Liaison Invariants and Unobstructedness Jan Oddvar Kleppe, 2001 This paper contributes to the liaison and obstruction theory of subschemes in \mathbb{P}^n having codimension at least three The first part establishes several basic results on Gorenstein liaison A classical result of Gaeta on liaison classes of projectively normal curves in \mathbb{P}^3 is generalized to the statement that every codimension c standard determinantal scheme is a scheme defined by the maximal minors of a $t \times (t-c+1)$ homogeneous matrix is in the Gorenstein liaison class of a complete intersection Then Gorenstein liaison theory is developed as a theory of generalized divisors on arithmetically Cohen Macaulay schemes In particular a rather general construction of basic double G linkage is introduced which preserves the even G liaison class This construction extends the notion of basic double linkage which plays a fundamental role in the codimension two situation The second part of the paper studies groups which are invariant under complete intersection linkage and gives a number of geometric applications of these invariants Several differences between Gorenstein and complete intersection liaison are highlighted For example it turns out that linearly equivalent divisors on a smooth arithmetically Cohen Macaulay subscheme belong in

general to different complete intersection liaison classes but they are always contained in the same even Gorenstein liaison class The third part develops the interplay between liaison theory and obstruction theory and includes dimension estimates of various Hilbert schemes For example it is shown that most standard determinantal subschemes of codimension 3 are unobstructed and the dimensions of their components in the corresponding Hilbert schemes are computed

Equivariant E -Theory for C^ -Algebras* Erik Guentner, Nigel Higson, Jody Trout, 2000 This title examines the equivariant E theory for C^* algebra focusing on research carried out by Higson and Kasparov Let A and B be C^* algebras which are equipped with continuous actions of a second countable locally compact group G We define a notion of equivariant asymptotic morphism and use it to define equivariant E theory groups $EULG(A, B)$ which generalize the E theory groups of Connes and Higson We develop the basic properties of equivariant E theory including a composition product and six term exact sequences in both variables and apply our theory to the problem of calculating K theory for group C^* algebras Our main theorem gives a simple criterion for the assembly map of Baum and Connes to be an isomorphism The result plays an important role in the work of Higson and Kasparov on the Baum-Connes conjecture for groups which act isometrically and metrically properly on Hilbert space

Analytic Quotients Ilijas Farah, 2000 This book is intended for graduate students and research mathematicians interested in set theory

On Natural Coalgebra Decompositions of Tensor Algebras and Loop Suspensions Paul Selick, Jie Wu, 2000 This book is intended for graduate students and research mathematicians interested in topology and representation theory

Triangulations of Oriented Matroids Francisco Santos, 2002 We consider the concept of triangulation of an oriented matroid We provide a definition which generalizes the previous ones by Billera-Munson and by Anderson and which specializes to the usual notion of triangulation or simplicial fan in the realizable case Then we study the relation existing between triangulations of an oriented matroid M and extensions of its dual M^* via the so called lifting triangulations We show that this duality behaves particularly well in the class of Lawrence matroid polytopes In particular that the extension space conjecture for realizable oriented matroids is equivalent to the restriction to Lawrence polytopes of the Generalized Baues problem for subdivisions of polytopes We finish by showing examples and a characterization of lifting triangulations

Smooth Molecular Decompositions of Functions and Singular Integral Operators John E. Gilbert, 2002 Under minimal assumptions on a function ψ the authors obtain wavelet type frames of the form $\psi_{j,k} \otimes x^r$ $1 \leq j \leq n$ $\psi_{j,k} \otimes x^{s_k}$ in integer k in integer $1 \leq k \leq n$ for some $r \geq 1$ and $s \geq 0$ This collection is shown to be a frame for a scale of Triebel-Lizorkin spaces which includes Lebesgue-Sobolev and Hardy spaces and the reproducing formula converges in norm as well as pointwise a.e The construction follows from a characterization of those operators which are bounded on a space of smooth molecules This characterization also allows us to decompose a broad range of singular integral operators in terms of

Mutual Invasibility Implies Coexistence in Spatial Models Richard Durrett, 2002 In 1994 Durrett and Levin proposed that the equilibrium behavior of stochastic spatial models could be determined from properties of

the solution of the mean field ordinary differential equation ODE that is obtained by pretending that all sites are always independent Here we prove a general result in support of that picture We give a condition on an ordinary differential equation which implies that densities stay bounded away from 0 in the associated reaction diffusion equation and that coexistence occurs in the stochastic spatial model with fast stirring Then using biologists notion of invadability as a guide we show how this condition can be checked in a wide variety of examples that involve two or three species epidemics diploid genetics models predator prey systems and various competition models

Equivariant Orthogonal Spectra and \mathbb{S} -Modules
M. A. Mandell, J. Peter May, 2002 The last few years have seen a revolution in our understanding of the foundations of stable homotopy theory Many symmetric monoidal model categories of spectra whose homotopy categories are equivalent to the stable homotopy category are now known whereas no such categories were known before 1993 The most well known examples are the category of \mathbb{S} modules and the category of symmetric spectra We focus on the category of orthogonal spectra which enjoys some of the best features of \mathbb{S} modules and symmetric spectra and which is particularly well suited to equivariant generalization We first complete the nonequivariant theory by comparing orthogonal spectra to \mathbb{S} modules We then develop the equivariant theory For a compact Lie group G we construct a symmetric monoidal model category of orthogonal G spectra whose homotopy category is equivalent to the classical stable homotopy category of G spectra We also complete the theory of \mathbb{S}_G modules and compare the categories of orthogonal G spectra and \mathbb{S}_G modules A key feature is the analysis of change of universe change of group fixed point and orbit functors in these two highly structured categories for the study of equivariant stable homotopy theory

Homogeneous Spaces, Tits Buildings, and Isoparametric Hypersurfaces Linus Kramer, 2002 This title classifies 1 connected compact homogeneous spaces which have the same rational cohomology as a product of spheres $\mathbb{S}^{n_1} \times \cdots \times \mathbb{S}^{n_r}$ with $3 \leq n_1 \leq \cdots \leq n_r$ and n_i odd As an application it classifies compact generalized quadrangles buildings of type C_2 which admit a point transitive automorphism group and isoparametric hypersurfaces which admit a transitive isometry group on one f

A Geometric Setting for Hamiltonian Perturbation Theory Anthony D. Blaom, 2001 In this text the perturbation theory of non commutatively integrable systems is revisited from the point of view of non Abelian symmetry groups Using a co ordinate system intrinsic to the geometry of the symmetry the book generalizes and geometrizes well known estimates of Nekhoroshev 1977 in a class of systems having almost G invariant Hamiltonians These estimates are shown to have a natural interpretation in terms of momentum maps and co adjoint orbits The geometric framework adopted is described explicitly in examples including the Euler Poincaré rigid body

The Second Chinburg Conjecture for Quaternion Fields Jeff Hooper, Victor Percy Snaith, Minh Van Tran, 2000 The Second Chinburg Conjecture relates the Galois module structure of rings of integers in number fields to the values of the Artin root number on the symplectic representations of the Galois group This book establishes the Second Chinburg Conjecture for various quaternion fields

The Submanifold

Geometries Associated to Grassmannian Systems Martina Brück, 2002 This work is intended for graduate students and research mathematicians interested in differential geometry and partial differential equations

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Table of Contents New Construction Of Homogeneous Quaternionic Manifolds And Related Geometric Structures

1. Understanding the eBook New Construction Of Homogeneous Quaternionic Manifolds And Related Geometric Structures
 - The Rise of Digital Reading New Construction Of Homogeneous Quaternionic Manifolds And Related Geometric Structures
 - Advantages of eBooks Over Traditional Books
2. Identifying New Construction Of Homogeneous Quaternionic Manifolds And Related Geometric Structures
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an New Construction Of Homogeneous Quaternionic Manifolds And Related Geometric Structures
 - User-Friendly Interface
4. Exploring eBook Recommendations from New Construction Of Homogeneous Quaternionic Manifolds And Related Geometric Structures
 - Personalized Recommendations
 - New Construction Of Homogeneous Quaternionic Manifolds And Related Geometric Structures User Reviews and Ratings

- New Construction Of Homogeneous Quaternionic Manifolds And Related Geometric Structures and Bestseller Lists
- 5. Accessing New Construction Of Homogeneous Quaternionic Manifolds And Related Geometric Structures Free and Paid eBooks
 - New Construction Of Homogeneous Quaternionic Manifolds And Related Geometric Structures Public Domain eBooks
 - New Construction Of Homogeneous Quaternionic Manifolds And Related Geometric Structures eBook Subscription Services
 - New Construction Of Homogeneous Quaternionic Manifolds And Related Geometric Structures Budget-Friendly Options
- 6. Navigating New Construction Of Homogeneous Quaternionic Manifolds And Related Geometric Structures eBook Formats
 - ePub, PDF, MOBI, and More
 - New Construction Of Homogeneous Quaternionic Manifolds And Related Geometric Structures Compatibility with Devices
 - New Construction Of Homogeneous Quaternionic Manifolds And Related Geometric Structures Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of New Construction Of Homogeneous Quaternionic Manifolds And Related Geometric Structures
 - Highlighting and Note-Taking New Construction Of Homogeneous Quaternionic Manifolds And Related Geometric Structures
 - Interactive Elements New Construction Of Homogeneous Quaternionic Manifolds And Related Geometric Structures
- 8. Staying Engaged with New Construction Of Homogeneous Quaternionic Manifolds And Related Geometric Structures
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers New Construction Of Homogeneous Quaternionic Manifolds And Related Geometric Structures
- 9. Balancing eBooks and Physical Books New Construction Of Homogeneous Quaternionic Manifolds And Related

Geometric Structures

- Benefits of a Digital Library
- Creating a Diverse Reading Collection New Construction Of Homogeneous Quaternionic Manifolds And Related Geometric Structures

10. Overcoming Reading Challenges

- Dealing with Digital Eye Strain
- Minimizing Distractions
- Managing Screen Time

11. Cultivating a Reading Routine New Construction Of Homogeneous Quaternionic Manifolds And Related Geometric Structures

- Setting Reading Goals New Construction Of Homogeneous Quaternionic Manifolds And Related Geometric Structures
- Carving Out Dedicated Reading Time

12. Sourcing Reliable Information of New Construction Of Homogeneous Quaternionic Manifolds And Related Geometric Structures

- Fact-Checking eBook Content of New Construction Of Homogeneous Quaternionic Manifolds And Related Geometric Structures
- Distinguishing Credible Sources

13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
- Exploring Educational eBooks

14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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