Flat Extensions of Positive Moment Matrices: Recursively Generated Relations

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Flat Extensions Of Positive Moment Matrices Recursively Generated Relations:

Flat Extensions of Positive Moment Matrices: Recursively Generated Relations Raúl E. Curto,Lawrence A. Fialkow,1998 In this book the authors develop new computational tests for existence and uniqueness of representing measures mu in the Truncated Complex Moment Problem gamma ij int bar zizj d mu 0 le i j le 2n Conditions for the existence of finitely atomic representing measures are expressed in terms of positivity and extension properties of the moment matrix M n gamma associated with gamma equiv gamma 2n gamma 00 dots gamma 0 2n dots gamma 2n 0 gamma 00 0 This study includes new conditions for flat i e rank preserving extensions M n 1 of M n ge 0 each such extension corresponds to a distinct rank M n atomic representing measure and each such measure is minimal among representing measures in terms of the cardinality of its support For a natural class of moment matrices satisfying the tests of recursive generation recursive consistency and normal consistency the existence problem for minimal representing measures is reduced to the solubility of small systems of multivariable algebraic equations In a variety of applications including cases of the quartic moment problem n 2 the text includes explicit contructions of minimal representing measures via the theory of flat extensions Additional computational texts are used to prove non existence of representing measures or the non existence of minimal representing measures These tests are used to illustrate in very concrete terms new phenomena associated with higher dimensional moment problems that do not appear in the classical one dimensional moment problem **The Defect Relation of Meromorphic Maps on Parabolic Manifolds** George Lawrence Ashline,1999 This book is intended for graduate students and research mathematicians working in several complex variables and analytic spaces **Optimization of Polynomials in Non-Commuting Variables** Sabine Burgdorf,Igor Klep,Janez Povh,2016-06-07 This book presents recent results on positivity and optimization of polynomials in non commuting variables Researchers in non commutative algebraic geometry control theory system engineering optimization quantum physics and information science will find the unified notation and mixture of algebraic geometry and mathematical programming useful Theoretical results are matched with algorithmic considerations several examples and information on how to use NCSOStools open source package to obtain the results provided Results are presented on detecting the eigenvalue and trace positivity of polynomials in non commuting variables using Newton chip method and Newton cyclic chip method relaxations for constrained and unconstrained optimization problems semidefinite programming formulations of the relaxations and finite convergence of the hierarchies of these relaxations and the practical efficiency of algorithms **Number Theory and Combinatorics** Bruce M. Landman,Florian Luca,Melvyn B. Nathanson,Jaroslav Nešetřil,Aaron Robertson,2022-04-19 Over a career that spanned 60 years Ronald L Graham known to all as Ron made significant contributions to the fields of discrete mathematics number theory Ramsey theory computational geometry juggling and magical mathematics and many more Ron also was a mentor to generations of mathematicians he gave countless talks and helped bring mathematics to a wider audience and he held signifi cant leadership roles in the

mathematical community This volume is dedicated to the life and memory of Ron Graham and includes 20 articles by leading scientists across a broad range of subjects that refl ect some of the many areas in which Ron worked *Algebraic and Strong Splittings of Extensions of Banach Algebras* William G. Bade,Harold G. Dales,Zinaida Alexandrovna Lykova,1999 In this volume the authors address the following Let A be a Banach algebra and let sum 0 rightarrow I rightarrow frak A overset pi to longrightarrow A rightarrow 0 be an extension of A where frak A is a Banach algebra and I is a closed ideal in frak A The extension splits algebraically respectively splits strongly if there is a homomorphism respectively continuous homomorphism theta A rightarrow frak A such that pi circ theta is the identity on A Consider first for which Banach algebras A it is true that every extension of A in a particular class of extensions splits either algebraically or strongly and second for which Banach algebras it is true that every extension of A in a particular class which splits algebraically also splits strongly These questions are closely related to the question when the algebra frak A has a strong Wedderburn decomposition The main technique for resolving these questions involves the Banach cohomology group cal H2 A E for a Banach A bimodule E and related cohomology groups Later chapters are particularly concerned with the case where the ideal I is finite dimensional Results are obtained for many of the standard Banach algebras A **Frames, Bases and Group Representations** Deguang Han,David R. Larson,2000 This work develops an operator theoretic approach to discrete frame theory on a separable Hilbert space It is then applied to an investigation of the structural properties of systems of unitary operators on Hilbert space which are related to orthonormal wavelet theory Also obtained are applications of frame theory to group representations and of the theory of abstract unitary systems to frames generated by Gabor type systems **Renormalized Self-Intersection Local Times and Wick Power Chaos Processes** Michael B. Marcus,Jay Rosen,1999 Sufficient conditions are obtained for the continuity of renormalized self intersection local times for the multiple intersections of a large class of strongly symmetric L vy processes in R DEGREESm m 1 2 In R DEGREES2 these include Brownian motion and stable processes of index greater than 3 2 as well as many processes in their domains of attraction In R DEGREES1 these include stable processes of index 3 4 *Proper Maps of Toposes* Ieke Moerdijk,Jacob Johan Caspar Vermeulen,2000 We develop the theory of compactness of maps between toposes together with associated notions of separatedness This theory is built around two versions of propriety for topos maps introduced here in a parallel fashion The first giving what we simply call proper maps is a relatively weak condition due to Johnstone The second kind of proper maps here called tidy satisfy a stronger condition due to Tierney and Lindgren Various forms of the Beck Chevalley condition for lax fibered product squares of toposes play a central role in the development of the theory Applications include a version of the Reeb stability theorem for toposes a characterization of hyperconnected Hausdorff toposes as classifying toposes of compact groups and of strongly Hausdorff coherent toposes as classifiying toposes of profinite groupoids Our results also enable us to develop further particular aspects of the factorization theory of geometric morphisms studied by Johnstone Our final application is a so called

lax descent theorem for tidy maps between toposes This theorem implies the lax descent theorem for coherent toposes conjectured by Makkai and proved earlier by Zawadowski   <u>Complexes Associated to Two Vectors and a Rectangular Matrix</u> Andrew R. Kustin,2000 This book is intended for graduate student and research mathematicians interested in commutative rings and algebras   **A Computation of $\delta ^1_5$** Steve Jackson,1999 This book is intended for graduate students and research mathematicians working in logic and foundations   *A New Construction of Homogeneous Quaternionic Manifolds and Related Geometric Structures* Vicente Cortés,2000 Let V mathbb R p q be the pseudo Euclidean vector space of signature p q p ge 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 Pi 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 Pi 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 Pi is nondegenerate   *Norms on Possibilities. I: Forcing with Trees and Creatures* Andrzej Rosłanowski,Saharon Shelah,1999 This book is intended for graduate students and research mathematicians interested in mathematical logic and foundations   **Rational Curves on Quasi-Projective Surfaces** Seán Keel,James McKernan,1999 This book is intended for graduate students and research mathematicians working in algebraic geometry   **Realization of Vector Fields and Dynamics of Spatially Homogeneous Parabolic Equations** Edward Norman Dancer,Peter Poláčik,1999 This book is intended for graduate students and research mathematicians working in partial differential equations   **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 Bau m Connes conjecture for groups which act isometrically and metrically properly on Hilbert space   Dynamical Zeta Functions, Nielsen Theory and Reidemeister Torsion Alexander Fel'shtyn,Alexander Fel'shtyn,2000 In the paper we study new dynamical zeta functions connected with Nielsen fixed point theory The study of dynamical zeta functions is part of the theory of dynamical systems but it is also intimately related to algebraic geometry number theory topology and statistical mechanics The paper consists of four parts Part I presents a brief account of the Nielsen fixed point theory Part II deals with dynamical zeta functions connected with Nielsen fixed point theory Part III is concerned with analog of Dold congruences for the Reidemeister and Nielsen numbers In Part IV we explain how dynamical zeta functions give rise to the Reidemeister torsion a very important topological invariant which has useful applications in knots theory quantum field theory and dynamical systems   **Diffeomorphisms and Noncommutative Analytic Torsion** John Lott,1999 This book is intended for graduate students and research mathematicians working in global analysis and analysis on manifolds   **Squared Hopf Algebras** Volodymyr V. Lyubashenko,1999 This book is intended for graduate students and research mathematicians interested in associative rings and algebras   **Morava K-Theories and Localisation** Mark Hovey,Neil P. Strickland,1999 This book is intended for graduate students and research mathematicians working in group theory and generalizations   **Simplicial Dynamical Systems** Ethan Akin,1999 A simplicial dynamical system is a simplicial map g K DEGREES rightarrow K where K is a finite simplicial complex triangulating a compact polyhedron X and K DEGREES is a proper subdivision of K for example the barycentric or any further subdivision the dynamics of the asociated piecewise linear map g X X can be analyzed by using certain naturally related subshifts of finite type Any continous map on X can be C DEGREES0 approximated by such systems Other examples yield interesting

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