

EXTREME POINTS OF THE UNIT BALL OF AN OPERATOR SPACE

MASAYOSHI KANEDA*

Dedicated to the memory of Gert K. Pedersen

ABSTRACT. We study extreme points of the unit ball of an operator space by introducing the new notion (approximate) “quasi-identities”. Then we characterize an operator algebra with a contractive approximate quasi- (respectively, left, right, two-sided) identity in terms of quasi-multipliers and extreme points. Furthermore, we give a very neat necessary and sufficient condition for a given operator space to become a C^* -algebra or a one-sided ideal in a C^* -algebra in terms of quasi-multipliers. An extreme point is also used to show that any TRO with predual can be decomposed to the direct sum of a two-sided ideal, a left ideal, and a right ideal in some von Neumann algebra.

1. INTRODUCTION.

Quasi-multipliers of operator spaces were introduced by V. I. Paulsen ([19] Definition 2.2) in late 2002 as a natural variant of one-sided multipliers of operator spaces which had been introduced and studied by D. P. Blecher around 1999 ([1]). However, the significant correspondence of quasi-multipliers and operator algebra products was discovered by the author ([19] Theorem 2.6) in early 2003. That is, for a given operator space X , the possible operator algebra products that X can be equipped with are precisely the bilinear mappings on X that are implemented by contractive quasi-multipliers. Moreover, in [17] Theorem 3.3.1 and [18] Theorem 4.1, the author gave a geometric characterization of operator algebra products in terms of only matrix norms using the Haagerup tensor product. These results were presented in the Great Plains Operator Theory Symposium (GPOTS) held at the University of Illinois at Urbana-Champaign in 2003. After the author’s talk, G. K. Pedersen asked the author the question “How can the extreme points of the unit ball of a quasi-multiplier space be characterized?” This question gave the author a further direction to study about quasi-multipliers. Through investigation, it turned out that what should be characterized is the “interlocking” between quasi-multipliers and extreme points of the unit ball of the

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Model Theory And Linear Extreme Points In The Numerical Radius Unit Ball

Jean Dhombres



Model Theory And Linear Extreme Points In The Numerical Radius Unit Ball:

Model Theory and Linear Extreme Points in the Numerical Radius Unit Ball Michael A. Dritschel, 2014-09-11 This memoir initiates a model theory based study of the numerical radius norm Guided by the abstract model theory of Jim Agler the authors propose a decomposition for operators that is particularly useful in understanding their properties with respect to the numerical radius norm Of the topics amenable to investigation with these tools the following are presented a complete description of the linear extreme points of the non matrix numerical radius unit ball several equivalent characterizations of matricial extremals in the unit ball that is those members which do not allow a nontrivial extension remaining in the unit ball and applications to numerical ranges of matrices including a complete parameterization of all matrices whose numerical ranges are closed disks

Model Theory and Linear Extreme Points in the Numerical Radius Unit Ball Michael A. Dritschel, Hugo Jan Woerdeman, 1997 This memoir initiates a model theory based study of the numerical radius norm Guided by the abstract model theory of Jim Agler the authors propose a decomposition for operators that is particularly useful in understanding their properties with respect to the numerical radius norm Of the topics amenable to investigation with these tools the following are presented a complete description of the linear extreme points of the non matrix numerical radius unit ball several equivalent characterizations of matricial extremals in the unit ball that is those members which do not allow a nontrivial extension remaining in the unit ball and applications to numerical ranges of matrices including a complete parameterization of all matrices whose numerical ranges are closed disks

Numerical Ranges of Hilbert Space Operators Hwa-Long Gau, Pei Yuan Wu, 2021-08-05 Starting with elementary operator theory and matrix analysis this book introduces the basic properties of the numerical range and gradually builds up the whole numerical range theory Over 400 assorted problems ranging from routine exercises to published research results give you the chance to put the theory into practice and test your understanding Interspersed throughout the text are numerous comments and references allowing you to discover related developments and to pursue areas of interest in the literature Also included is an appendix on basic convexity properties on the Euclidean space Targeted at graduate students as well as researchers interested in functional analysis this book provides a comprehensive coverage of classic and recent works on the numerical range theory It serves as an accessible entry point into this lively and exciting research area

Gian-Carlo Rota on Analysis and Probability Jean Dhombres, 2002-12-06 Gian Carlo Rota was born in Vigevano Italy in 1932 He died in Cambridge Massachusetts in 1999 He had several careers most notably as a mathematician but also as a philosopher and a consultant to the United States government His mathematical career was equally varied His early mathematical studies were at Princeton 1950 to 1953 and Yale 1953 to 1956 In 1956 he completed his doctoral thesis under the direction of Jacob T Schwartz This thesis was published as the paper Extension theory of differential operators I the first paper reprinted in this volume Rota's early work was in analysis more specifically in operator theory differential equations ergodic theory and probability theory In the 1960's Rota

was motivated by problems in fluctuation theory to study some operator identities of Glen Baxter see 7 Together with other problems in probability theory this led Rota to study combinatorics His series of papers On the foundations of combinatorial theory led to a fundamental re evaluation of the subject Later in the 1990 s Rota returned to some of the problems in analysis and probability theory which motivated his work in combinatorics This was his intention all along and his early death robbed mathematics of his unique perspective on linkages between the discrete and the continuous Glimpses of his new research programs can be found in 2 3 6 9 10

Study of the Critical Points at Infinity Arising from the Failure of the Palais-Smale Condition for n-Body Type Problems Hasna Riahi, 1999 In this work the author examines the following When the Hamiltonian system $m \ddot{q} + \nabla V(q) = 0$ with periodicity condition $q(t) = q(t+T)$ for all t in germ R where $q \in \text{germ } R^{\ell}$ and $V = \sum_{i,j=1}^n V_{ij}(t) q_i q_j$ with $V_{ij}(t)$ T periodic in t and singular in x_i at $x_i = 0$ is posed as a variational problem the corresponding functional does not satisfy the Palais Smale condition and this leads to the notion of critical points at infinity This volume is a study of these critical points at infinity and of the topology of their stable and unstable manifolds The potential considered here satisfies the strong force hypothesis which eliminates collision orbits The details are given for 4 body type problems then generalized to n body type problems

Hodge Theory in the Sobolev Topology for the de Rham Complex Luigi Fontana, Steven George Krantz, Marco M. Peloso, 1998 In this book the authors treat the full Hodge theory for the de Rham complex when calculated in the Sobolev topology rather than in the L^2 topology The use of the Sobolev topology strikingly alters the problem from the classical setup and gives rise to a new class of elliptic boundary value problems The study takes place on both the upper half space and on a smoothly bounded domain It features a good introduction to elliptic theory pseudo differential operators and boundary value problems theorems completely explained and proved and new geometric tools for differential analysis on domains and manifolds

Combinatorial Theory of the Free Product with Amalgamation and Operator-Valued Free Probability Theory Roland Speicher, 1998 Free probability theory introduced by Voiculescu has developed very actively in the last few years and has had an increasing impact on quite different fields in mathematics and physics Whereas the subject arose out of the field of von Neumann algebras presented here is a quite different view of Voiculescu s amalgamated free product This combinatorial description not only allows re proving of most of Voiculescu s results in a concise and elegant way but also opens the way for many new results Unlike other approaches this book emphasizes the combinatorial structure of the concept of freeness This gives an elegant and easily accessible description of freeness and leads to new results in unexpected directions Specifically a mathematical framework for otherwise quite ad hoc approximations in physics emerges

The Riemann Problem for the Transportation Equations in Gas Dynamics Wancheng Sheng, Tong Zhang, 1999 In this volume the one dimensional and two dimensional Riemann problems for the transportation equations in gas dynamics are solved constructively In either the 1 D or 2 D case there are only two kinds of solutions one involves Dirac delta waves and the other involves vacuums which has

been merely discussed so far The generalized Rankine Hugoniot and entropy conditions for Dirac delta waves are clarified with viscous vanishing method All of the existence uniqueness and stability for viscous perturbations are proved analytically

A Continuum Limit of the Toda Lattice Percy Deift, Kenneth T-R McLaughlin, 1998 In this book the authors describe a continuum limit of the Toda ODE system obtained by taking as initial data for the finite lattice successively finer discretizations of two smooth functions Using the integrability of the finite Toda lattice the authors adapt the method introduced by Lax and Levermore for the study of the small dispersion limit of the Korteweg de Vries equations to the case of the Toda lattice A general class of initial data is considered which permits in particular the formation of shocks A feature of the analysis in this book is an extensive use of techniques from the theory of Riemann Hilbert problems Hopf Algebras, Polynomial Formal Groups, and Raynaud Orders Lindsay Childs, 1998 This volume gives two new methods for constructing p elementary Hopf algebra orders over the valuation ring R of a local field K containing the p adic rational numbers One method constructs Hopf orders using isogenies of commutative degree 2 polynomial formal groups of dimension n and is built on a systematic study of such formal group laws The other method uses an exponential generalization of a 1992 construction of Greither Both constructions yield Raynaud orders as iterated extensions of rank p Hopf algebras the exponential method obtains all Raynaud orders whose invariants satisfy a certain p adic condition **The Study of Minimax Inequalities and Applications to Economies and Variational Inequalities** George Xian-Zhi Yuan, 1998 This book provides a unified treatment for the study of the existence of equilibria of abstract economics in topological vector spaces from the viewpoint of Ky Fan minimax inequalities which strongly depend on his infinite dimensional version of the classical Knaster Kuratowski and Mazurkiewicz Lemma KKM Lemma in 1961 Studied are applications of general system versions of minimax inequalities and generalized quasi variational inequalities and random abstract economies and its applications to the system of random quasi variational inequalities are given **Relations Related to Betweenness: Their Structure and Automorphisms** Samson Adepoju Adeleke, P. M. Neumann, 1998 This volume is about tree like structures namely semilinear ordering general betweenness relations C relations and D relations It contains a systematic study of betweenness and introduces C and D relations to describe the behaviour of points at infinity leaves or ends or directions of trees The focus is on structure theorems and on automorphism groups with applications to the theory of infinite permutation groups Annihilating Fields of Standard Modules of $\mathfrak{sl}(2, \mathbb{C})^{\sim}$ and Combinatorial Identities Arne Meurman, Mirko Primc, 1999 In this volume the authors show that a set of local admissible fields generates a vertex algebra For an affine Lie algebra $\tilde{\mathfrak{g}}$ they construct the corresponding level k vertex operator algebra and show that level k highest weight $\tilde{\mathfrak{g}}$ modules are modules for this vertex operator algebra They determine the set of annihilating fields of level k standard modules and study the corresponding loop $\tilde{\mathfrak{g}}$ module the set of relations that defines standard modules In the case when $\tilde{\mathfrak{g}}$ is of type A 1 1 they construct bases of standard modules parameterized by colored partitions and

as a consequence obtain a series of Rogers Ramanujan type combinatorial identities

Differential Equations Methods for the Monge-Kantorovich Mass Transfer Problem Lawrence C. Evans, Wilfrid Gangbo, 1999 In this volume the authors demonstrate under some assumptions on f that a solution to the classical Monge-Kantorovich problem of optimally rearranging the measure $\mu_f dx$ onto $\mu_f dy$ can be constructed by studying the p -Laplacian equation $\operatorname{div} \nabla_p u_p$ in the limit as $p \rightarrow \infty$. The idea is to show $u_p \rightarrow u$ where u satisfies $|\nabla u| \leq 1$ and $\operatorname{div} a \nabla u = f$ for some density $a \geq 0$ and then to build a flow by solving a nonautonomous ODE involving $a \nabla u$ and f .

Abelian Galois Cohomology of Reductive Groups Mikhail Borovoi, 1998 In this volume a new function $H^2_{\text{ab}}(K, G)$ of abelian Galois cohomology is introduced from the category of connected reductive groups G over a field K of characteristic 0 to the category of abelian groups. The abelian Galois cohomology and the abelianization map $H^1(K, G) \rightarrow H^2_{\text{ab}}(K, G)$ are used to give a functorial almost explicit description of the usual Galois cohomology set $H^1(K, G)$ when K is a number field.

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.

Invariants under Tori of Rings of Differential Operators and Related Topics Ian Malcolm Musson, M. van den Bergh, 1998 If G is a reductive algebraic group acting rationally on a smooth affine variety X then it is generally believed that $D(X)$ has properties very similar to those of enveloping algebras of semisimple Lie algebras. In this book the authors show that this is indeed the case when G is a torus and $X \cong \mathbb{A}^k$. They give a precise description of the primitive ideals in $D(X)$ and study in detail the ring theoretical and homological properties of the minimal primitive quotients of $D(X)$. The latter are of the form $B(D(X)_{\text{germ } g} / \chi(\text{germ } g))$ where $\text{germ } g \in \text{Lie } G$ and χ is in $\text{germ } g^*$ and $\text{germ } g^* / \chi(\text{germ } g)$ is the set of all $v \in \text{germ } g^*$ with $v \in \text{germ } g$. They occur as rings of twisted differential operators on toric varieties. It is also proven that if G is a torus acting rationally on a smooth affine variety then $D(X)^G$ is a simple ring.

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 μ in the Truncated Complex Moment Problem $\gamma_{ij} = \int z^i \bar{z}^j d\mu$, $0 \leq i, j \leq 2n$. 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 γ . $\gamma \in \text{equiv } \gamma_{2n} \subset \gamma_0 \oplus \dots \oplus \gamma_{2n} \oplus \dots \oplus \gamma_{2n} \oplus \gamma_0$. This study includes new conditions for flat (i.e. rank preserving) extensions M_{n+1} of $M_n \geq 0$; 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 constructions 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 Bosonic

Construction of Vertex Operator Para-Algebras from Symplectic Affine Kac-Moody Algebras Michael David Weiner, 1998

Begins with the bosonic construction of four level 1 2 irreducible representations of the symplectic affine Kac Moody Lie algebra C1 The direct sum of two of these is given the structure of a vertex operator algebra VOA and the direct sum of the other two is given the structure of a twisted VOA module The dissertation includes the bosonic analog of the fermionic construction of a vertex operator superalgebra from the four level 1 irreducible modules of type D1 No index Annotation copyrighted by Book News Inc Portland OR **Some Connections between Isoperimetric and Sobolev-type**

Inequalities Serguei Germanovich Bobkov, Christian Houdré, 1997 For Borel probability measures on metric spaces this text studies the interplay between isoperimetric and Sobolev type inequalities In particular the question of finding optimal constants via isoperimetric quantities is explored Also given are necessary and sufficient conditions for the equivalence between the extremality of some sets in the isoperimetric problem and the validity of some analytic inequalities The book devotes much attention to the probability distributions on the real line the normalized Lebesgue measure on the Euclidean spheres and the canonical Gaussian measure on the Euclidean space

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