

EXTREME POINTS OF THE UNIT BALL OF AN OPERATOR SPACE

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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

Date: May 18, 2009.

Mathematics subject classification 2000. Primary 47L07; Secondary 47L30, 47L25, 46L07, 47L50, 46M10, 46L05.

Key words and phrases. quasi-multipliers, extreme points, abstract operator algebras, approximate identities, injective operator spaces, dual operator spaces, C^* -algebras, ideals, ternary rings of operators.

THIS PAPER IS A REVISION AND AN ENLARGEMENT OF THE AUTHOR’S MANUSCRIPT TITLED “EXTREME POINTS OF THE UNIT BALL OF A QUASI-MULTIPLIER SPACE” WHICH HAD BEEN CIRCULATED SINCE 2004.

* The author was supported by a research fund from Department of Mathematics, University of California, Irvine.

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

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