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Masayoshi Kaneda* (mkaneda@math.uci.edu), Department of Mathematics, The University of Mississippi, University, MS 38677-1848. *Multipliers and Extreme Points of Operator Spaces*.

In the first part of the talk, we give an alternative definition of one-sided multipliers and quasi-multipliers of operator spaces. Then we characterize the operator algebras that have an (approximate) contractive (one-sided) identity in terms of quasi-multipliers and extreme points. We also give an operator space characterization of C^* -algebras and their one-sided ideals. In the second part, we show that a ternary ring of operators with predual can be decomposed to the direct sum of a two-sided ideal, a left ideal, and a right ideal of some von Neumann algebra. Using this decomposition, we give a definition of two-sided multipliers of operator spaces which generalize two-sided multipliers of C^* -algebras. (Received September 15, 2008)