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The Kadison problem on a class of commutative Banach algebras with closed cone

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Abstract: The main result of the paper characterizes continuous local derivations on a class of commutative Banach algebra A that all of its squares are positive and satisfying the following property: Every continuous bilinear map Φ from $A \times A$ into an arbitrary Banach space B such that $\Phi(a, b) = 0$ whenever $ab = 0$, satisfies the condition $\Phi(ab, c) = \Phi(a, bc)$ for all $a, b, c \in A$.

Keywords: derivation, local derivation

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