

## A RESULT CONCERNING TWO-SIDED CENTRALIZERS ON ALGEBRAS WITH INVOLUTION

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*Abstract.* The purpose of this paper is to prove the following result. Let  $X$  be a complex Hilbert space, let  $\mathcal{L}(X)$  be the algebra of all bounded linear operators on  $X$  and let  $\mathcal{A}(X) \subset \mathcal{L}(X)$  be a standard operator algebra, which is closed under the adjoint operation. Let  $T : \mathcal{A}(X) \rightarrow \mathcal{L}(X)$  be a linear mapping satisfying the relation  $3T(AA^*A) = T(A)A^*A + AT(A^*)A + AA^*T(A)$  for all  $A \in \mathcal{A}(X)$ . In this case  $T$  is of the form  $T(A) = \lambda A$  for all  $A \in \mathcal{A}(X)$ , where  $\lambda$  is some fixed complex number.

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