

LIE TRIPLE DERIVATIONS ON NEST SUBALGEBRAS OF VON NEUMANN ALGEBRAS

Aili Yang

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Abstract

In this paper, we prove that every Lie triple derivation from $alg_M\beta$ into itself is of the form $X \to XT - TX + h(X)I$, where $T \in alg_M\beta$ and *h* is a linear mapping from $alg_M\beta$ into \mathbb{C} such that h([[A, B], C]) = 0 for all $A, B, C \in alg_M\beta$.

Keywords and phrases: Lie triple derivation, derivation, nest subalgebra.



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