MULTIPLICATIVE $\lambda-*-$JORDAN TRIPLE HIGHER DERIVATIONS ON STANDARD OPERATOR ALGEBRAS

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Abstract. Let $\mathcal{A}$ be a standard operator algebra on an infinite dimensional complex Hilbert space $\mathcal{H}$ containing an identity operator $\mathcal{I}$. In this paper, it is shown that any multiplicative λ-$*$-Jordan triple higher derivation $\mathscr{D} = \{\delta_n\}_{n\in\mathbb{N}}$ from $\mathcal{A}$ to $\mathcal{B}(\mathcal{H})$ is an additive $*$-higher derivation on $\mathcal{A}$. In particular, $\mathscr{D}$ is inner.

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