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On centralizers of semiprime rings

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Abstract: Let \mathcal{K} be a semiprime ring and $T : \mathcal{K} \rightarrow \mathcal{K}$ an additive mapping such that $T(x^2) = T(x)x$ holds for all $x \in \mathcal{K}$. Then T is a left centralizer of \mathcal{K} . It is also proved that Jordan centralizers and centralizers of \mathcal{K} coincide.

Keywords: semiprime ring, left centralizer, centralizer, Jordan centralizer

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