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Title: On (m, n) -Jordan centralizers of semiprime rings

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In this paper we prove the following result. Let $m \geq 1, n \geq 1$ be fixed integers and let R be an $mn(m+n)$ -torsion free semiprime ring. Suppose there exists an additive mapping $T : R \rightarrow R$ satisfying the relation $(m+n)T(x^2) = mT(x)x + nxT(x)$ for all $x \in R$ ((m, n) -Jordan centralizer). In this case T is a two-sided centralizer.

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