Title: Derivations in commutators with power central values in rings

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Let $R$ be a prime ring of characteristic different from 2 and $I$ a nonzero ideal of $R$, $d$ a nonzero derivation of $R$ such that \([d(x^k), x^k]^n\) is central, for all $x \in I$ where $k$, $n$ are fixed positive integers. Then $R$ satisfies $s_4$, the standard identity in 4 variables.

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