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Some Commutativity Results for S -unital Rings

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Abstract: In the present paper, it is shown that if R is a left (resp. right) s-unital ring satisfying $[f(y^m x^r y^s) \pm x^t y, x] = 0$ (resp. $[f(y^m x^r y^s) \pm y x^t, x] = 0$), where m, r, s, t are fixed non-negative integers and f(●) is a polynomial in {●}^{2}{\bf Z}[●], then R is commutative. Commutativity of R has also been investigated under different sets of constraints on integral exponents.

Key Words: Automorphisms, commutativity theorems, nilpotent elements, polynomial constraints, s-unital rings.

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