

ON SOME GENERALIZATIONS OF THE REVERSIBILITY IN
NONUNITAL RINGS

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ABSTRACT. This talk is intended as a discussion of some generalizations of the notion of a reversible ring, which may be obtained by the restriction of the zero commutative property from the whole ring to some of its subsets. By the INCZ property we will mean the commutativity of idempotent elements of a ring with its nilpotent elements at zero, and by ICZ property we will mean the commutativity of idempotent elements of a ring at zero. We will see that the INCZ property is equivalent to the abelianity even for nonunital rings. Thus the INCZ property implies the ICZ property. Under the assumption on the existence of unit, also the ICZ property implies the INCZ property. We will see, in the case of nonunital rings, there are a few classes of rings separating the class of INCZ rings from the class of ICZ rings. This talk is an outgrowth of our joint paper with Małgorzata Jastrzębska entitled *On some generalizations of the reversibility in nonunital rings*.

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