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Title: On weakly reversible rings and strongly reversible rings

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We introduce the notion of weakly reversible rings which is a generalization of reversible rings, and investigate its properties. We first give some examples of weakly reversible rings. We next argue about the weak reversibility of some kinds of polynomial rings. A number of properties of this generalization are established. Furthermore, we introduce the concepts of α -strongly reversible rings and (α, δ) -strongly reversible rings to consider the strongly reversible property of an Ore extension $R[x; \alpha, \delta]$ of a ring R instead of the ring $R[x]$.

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