Restricted Reversible Rings

Stefan Veldsman
Dept. Mathematics, Sultan Qaboos University, Muscat, Oman
veldsman@squ.edu.om

Reversibility of rings is a generalization of commutativity, but more-than-often this weaker commutativity is a consequence of the absence of certain zero products. For example, a reversible ring is prime if and only if it is an integral domain and a ring is reduced if and only if it is reversible and semiprime. Here we define and investigate classes of more restricted reversible rings which fulfills stronger commutative requirements; for example, rings R for which $ab = 0 = ac + db$ implies $ba = 0 = ca + bd$.