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Jeffrey S Olson* (jolson@norwich.edu), Department of Mathematics, 158 Harmon Dr., Northfield, VT 05663. *Fixed elements in involutive residuated lattices*. Preliminary report.

An involutive residuated lattice (IRL) is a lattice-ordered monoid possessing residual operations and a dualizing element d . The involution, i.e., the function $x \mapsto x \setminus d$, of an IRL induces a lattice anti-isomorphism, and is also an order-2 bijection of the underlying set. We examine which such bijections may be induced by the involution of an IRL. (Received August 01, 2009)