



## CONJUGATES OF EXTRA LOOPS

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### Abstract

We investigate Extra loops and their conjugates. Given any loop with identity element  $e$ . Let assume that our loop is an involution loop. We shall show in this paper that if all the six conjugates of the above loop satisfy the extra loop condition, then the underlying loop must be an extra loop.

**Keywords and phrases:** quasigroups, loops, extra loop, involution, automorphic, conjugate.

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