



**PARASTROPHS WHICH ARE MOUFANG LOOPS**

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**Abstract**

Let  $(G, \cdot)$  be a quasigroup. It is well known that there are five associated quasigroups which are called parastrophs. In this paper, we show that if  $(G, \cdot)$  has Automorphic Inverse Property (AIP) of index 2 and all the parastrophs are Moufang loops, then  $(G, \cdot)$  itself is a Moufang loop.

**Keywords and phrases:** quasigroup, loop, Moufang loop, parastroph.