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PARASTROPHS WHICH ARE MOUFANG LOOPS

Samuel Omoloye Ajala and David Joel Mengue Mengue

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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.

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