

ON QUADRATIC LOOPS OF MOUFANG AND JORDAN TYPES

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Abstract

In this paper we introduce some new connections between a class of quadratic differential equations and class of Bol-Moufang type loop identities. We also established nuclear square, extra and Jordan type loop identities. It is an important note that we are extended the previous work Solarin [2] to Jordan-nuclear square type. Various results obtained in this paper are shown to be sharp.

Key Words: Moufang loops, Bol-loops, Jordan loops, Loop algebra and Alternative algebra.

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