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Minimally nonassociative Moufang loops with a unique non-identity commutator are ring alternative

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Abstract: We investigate finite Moufang loops with a unique nonidentity commutator which are not associative, but all of whose proper subloops are associative. Curiously, perhaps, such loops turn out to be “ring alternative”, in the sense that their loop rings are alternative rings.

Keywords: Moufang loops, RA loops, alternative rings, minimal nonassociativity

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