
On the Existence of A-Loops with Some Commutative Inner Mappings and Others of Order 2

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Abstract

The existence of $A_{1/2}$ -loops, A_{α} -loops and A^1 -loops that are neither extra loops nor rCC-loops such that any two of their inner mappings $R(x;y)$; $L(x;y)$ and $T(x)$ commute while the other one is of order 2 is shown.

Keywords

Inner mapping; Loop; Isotopism; A-loop.