

## ON THE AUTOTOPISM GROUP OF THE CORDERO-FIGUEROA SEMIFIELD OF ORDER $3^6$

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### Abstract

In [5] M. Biliotti, V. Jha and N. Johnson were able to completely determine the autotopism group of a generalized twisted field as a subgroup of  $\Gamma L(K) \times \Gamma L(K)$ , where  $K = GF(p^n)$  and  $\Gamma L(K)$  is the group of non-singular semilinear transformations over  $K$ . In this article, we consider the Cordero-Figueroa semifield of order  $3^6$ , which is not a generalized twisted field, and we prove that its autotopism group is isomorphic to a subgroup of  $\Gamma L(K) \times \Gamma L(K)$ , where  $K = GF(3^6)$ .

**Keywords:** finite presemifield, finite semifield, autotopism, autotopism group.

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