

## A CONSTRUCTION OF FREE $\Gamma$ -SEMIGROUP WITH APARTNESS

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ABSTRACT. The notion of  $\Gamma$ -semigroups has been introduced by Sen (1984) and developed by Sen and Saha (1986). This author introduced in 2019 the concept of  $\Gamma$ -semigroups with apartness and analyzed their properties within the Bishop's constructive orientation. In this paper, a construction of a free  $\Gamma$ -semigroup with apartness is designed. In addition to the previous one, the so-called Universal Mapping Property for free  $\Gamma$ -semigroup with apartness is shown.

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