

ON THE STRUCTURE SPACE OF A Γ -SEMIGROUP VIA ITS LEFT OPERATOR SEMIGROUP

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Abstract

The structure space of a semigroup endowed with hull kernel topology is introduced and studied. Also the structure space of a Γ -semigroup is defined and a homeomorphism has been established between structure space of a Γ -semigroup and the structure space of its left operator semigroup. Moreover, various properties of structure space of a Γ -semigroup are studied via its left operator semigroup.

Keywords: operator semigroup, Γ -semigroup, prime ideal, hull-kernel topology.

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