Left Weakly Prime,Semiprime Ideals In Ternary Semigroups

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Abstract: Weakly prime and weakly semiprime ideals in ordered semigroups havebeen introduced and studied by N. Kehayopulu in [4]. In this paper we introduced and studied the left weakly prime and weakly semiprime ideals of ternary semigroups. We also prove that any left ideal of ternary semigroup is the intersection of all irreducible left weakly prime ideals of ternary semigroup containing it.

Key Words: Ternary semigroup, left weakly prime, left weakly semiprime, left strongly prime, irreducible, strongly irreducible, left semi regular.

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