

\mathcal{I} -Convergent Functions Defined On Amenable Semigroups

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Abstract

In this paper we firstly introduce and study the concepts of \mathcal{I} -convergence, \mathcal{I}^* -convergence, \mathcal{I} -Cauchy sequence and \mathcal{I}^* -Cauchy sequence of functions defined on discrete countable amenable groups, where \mathcal{I} is an ideal of subsets of the amenable semigroup G . Secondly, we introduce and examine \mathcal{I} -limit points and \mathcal{I} -Cluster points of functions defined on discrete countable amenable groups. Finally, we introduce and investigate \mathcal{I} -limit superior and \mathcal{I} -limit inferior of functions defined on discrete countable amenable groups.

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