

STATISTICAL AND ROUGH STATISTICAL CONVERGENCE IN AN S -METRIC SPACE

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Abstract. In this paper, using the concept of natural density, we have introduced the ideas of statistical and rough statistical convergence in an S -metric space. We have investigated some of their basic properties. We have defined statistical Cauchy and statistical boundedness of sequences and then some results related to these ideas have been studied. We have defined the set of rough statistical limit points of a sequence in an S -metric space and have proved some relevant results associated with such type of convergence.

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