μ_N DENSE SETS AND ITS NATURE

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Abstract: In this article we discuss the nature of contra-continuous functions in the generalized topological space via neutrosophic sets. Also we introduced a new type of set named as μ_N nowhere dense set and by making use of μ_N nowhere dense set we derive μ_N Baire Space and their features are to be discussed. The characters of μ_N rare sets also discussed briefly.

Keywords and Phrases: μ_N contra-continuous, μ_N perfectly continuous, μ_N dense sets, μ_N Rare set, μ_N Baire Spaces.

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1. Introduction

The concept of fuzziness had a great impact in all branches of mathematics which was put forth by Zadeh [13]. Later on, the idea of fuzziness and Topological spaces were put together by C. L. Chang [3] and laid a foundation to the theory of fuzzy topological spaces. By focussing the membership and non membership of the elements, K. T. Attanasov [1] made out intuitionistic fuzzy sets and he extended his research towards and gave out a generalization to intuitionistic L-fuzzy sets with his friend Stoeva [2]. F. Smarandache [7], [8] put his thoughts towards the degree of indeterminancy and bringforth the neutrosophic sets. Subsequently, the neutrosophic topological spaces with the help of neutrosophic sets were found out by A. A. Salama and S. A. Albowi [12]. By making all the works together as inspiration, we [11] made Generalized topological spaces via neutrosophic sets and named it as $\mu_N TS$. The neutrosophic nowhere dense sets in NTS were put forth by