

NEUTROSOPHIC Λ_P -HOMEOMORPHISM IN NEUTROSOPHIC TOPOLOGICAL SPACES

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Abstract: In this article, we have defined neutrosophic Λ_P -open, neutrosophic Λ_P -closed mappings and neutrosophic Λ_P -homeomorphism in neutrosophic topological spaces. Finally, we have extended our study to neutrosophic Λ_P - i -homeomorphism which is a stronger form of neutrosophic Λ_P -homeomorphism.

Keywords and Phrases: Neutrosophic Λ_P -open, neutrosophic Λ_P -continuous, neutrosophic Λ_P -open map, neutrosophic Λ_P -closed map, neutrosophic Λ_P -homeomorphism, neutrosophic Λ_P - i homeomorphism.

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1. Introduction

Since its introduction by Zadeh [12], fuzzy sets have been prevalent in nearly every field of mathematics. Florentine Smarandache [10] created the concept of neutrosophy and neutrosophic sets at the beginning of 20th century. Later Salama [8] and Alblowi initiated the neutrosophic sets in a topology entitled as neutrosophic topological space. Recently, the authors [6] of this paper defined a new notion of neutrosophic sets namely neutrosophic Λ_P -open and neutrosophic Λ_P -closed sets. Also, we have studied about novel concept of neutrosophic Λ_P -neighbourhood with quasi coincident. Also extended the neutrosophic continuous functions to neutrosophic Λ_P -continuous [7] and neutrosophic Λ_P -irresolute functions in neutrosophic topological space. The topological isomorphism commonly called homeomorphism plays a vital role in the properties of topological spaces. Parimala