

**FIXED POINT THEOREM IN M COMPLETE
NON-ARCHIMEDEAN FUZZY-METRIC-LIKE SPACES**

Sarika Saxena and Abha Tenguria*

Department of Mathematics,
Barkatullah University Institute of Technology,
Bhopal - 462026, Madhya Pradesh, INDIA

E-mail : sarika.s2011@rediffmail.com

*Department of Mathematics
Govt. M. L. B. Girls P. G. College,
Bhopal - 462001, Madhya Pradesh, INDIA

E-mail : abha.tenguria@gmail.com

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Abstract: The purpose of this paper is to establish a unique fixed point theorem for a self mapping, satisfying, $\beta - \psi$ -contractive conditions and β admissibility in M complete non-archimedean fuzzy metric like space. The established result generalizes, extends some existing results in the literature.

Keywords and Phrases: Fuzzy metric like, non-archimedean, fixed point, $\beta - \psi$ -contraction.

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1. Introduction

The theory of fuzzy sets was first introduced by Zadeh [12], after that a lot of research papers have been published on fuzzy sets. The fuzzy sets concept places an important role in scientific and engineering application. Kramosil and michalek [7] introduced the concept of fuzzy metric space by generalizing the concept of probabilistic metric space to fuzzy situation. George and Veeramani [2] modified this concept of fuzzy metric space and obtained a Hausdorff topology for this kind