

THE MULTI-FUZZY GROUP SPACES ON MULTI-FUZZY SPACE

Abstract: In this paper the concept of multi-fuzzy space and multi-fuzzy binary operation are presented and developed. This concept generalizes the concept of fuzzy space ([15] and [32]) to multi-membership function. These generalizations lead us to introduce and study the approach of multi-fuzzy group theory. A new theory of multi-fuzzy group is introduced and developed.

Keywords: multi-fuzzy space; multi-fuzzy subspaces; multi-fuzzy binary operations; multi-fuzzy group; multi-fuzzy subgroup

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