SOME PROPERTIES OF FUZZY CONE SYMMETRIC SPACES

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Abstract- In this study, we investigate the some properties of fuzzy cone symmetric spaces which is the fuzzy analogy of cone symmetric spaces. Since these structures are obtained by omitting the fuzzy triangle inequality in the definition of fuzzy cone metric space, its topological properties differ. Firstly we will give some sequential properties. Later we will give a function which is a contraction in the category of fuzzy cone metric space but not a contraction if we consider over fuzzy metric space. Acknowledgement: This paper has been granted by the Muğla Sıtkı Koçman University Research Projects Coordination Office. Project Grant Number: 17/196 and title "Some properties of fuzzy cone symmetric spaces".

Index terms- Fuzzy cone metric, fuzzy cone symmetric, cone metric, cone symmetric