

**ON  $g^\#$  -CLOSED FUZZY SETS, FUZZY  $g^\#$ -CL0SURE AND FUZZY  
 $g^\#$ -INTERIOR FUZZY SETS IN FUZZY TOPOLOGICAL SPACES**

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**Abstract**

In this paper, the class of  $g^\#$ -closed fuzzy sets are introduced. This class properly fits between the class of closed fuzzy sets and the class of  $g^*$ -closed fuzzy sets in fuzzy topological spaces. Further, the concept of  $g^\#$  - open fuzzy sets, fuzzy  $g^\#$  - closure and fuzzy  $g^\#$  - interior fuzzy sets in fuzzy topological spaces are also introduced, studied and some of their properties are obtained.

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Key Words and Phrases :  $fg^\#$  - closed fuzzy sets,  $fg^\#$ - closure and  $fg^\#$ -interior.

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