## ON SOME RECENT g#-α -CLOSED FUZZY SETS, FUZZY g# -α -CLOSED MAPPINGS AND FUZZY g# -α - HOMEOMORPHISM IN FUZZY TOPOLOGICAL SPACES

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## **Abstract**

In this paper, the class of g# - $\alpha$  - closed fuzzy sets are introduced. This class is properly placed in between the class of g\*- closed fuzzy sets and the class of  $\alpha g$  - closed fuzzy sets in fuzzy topological spaces. Further, the concept of fuzzy g# - $\alpha$ -continuous, fuzzy g# - $\alpha$  - irresolute mappings, fuzzy g# - $\alpha$  -closed maps, fuzzy g# - $\alpha$  -open maps and fuzzy g# - $\alpha$  -homeomorphism in fuzzy topological spaces are also introduced, studied and some of their properties are obtained.

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**Keywords**: g#- $\alpha$ -closed fuzzy sets, fg# - $\alpha$  -continuous, fg# - $\alpha$  -irresolute, fg# - $\alpha$  -open, fg# - $\alpha$  -closed mappings and fg# - $\alpha$  - homeomorphism.

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