

## BETWEEN $\alpha$ -CLOSED AND $G_\alpha$ -CLOSED SETS

R. VIJAYALAKSHMI AND D. KRISHNASWAMY

### Abstract

In this paper, we introduce the concept strongly generalized  $\alpha$ -closed ( $= g^*\alpha$ -closed) sets, strongly generalized  $\alpha$ -open ( $= g^*\alpha$ -open) sets, and strongly  $\alpha T_{\frac{1}{2}}$ -spaces which are weaker forms of  $g\alpha$ -closed sets,  $g\alpha$ -open sets and stronger forms of  $\alpha T_{\frac{1}{2}}$ -spaces respectively. Furthermore, we study some of their properties.

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Key Words and Phrases :  $g^*\alpha$ -closed sets,  $g^*\alpha$ -open sets, Strongly  $\alpha T_{\frac{1}{2}}$ -spaces,  $\alpha T_b$  and  $\alpha T_p$ -spaces.

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