

## $\beta^*$ -REGULAR AND $\beta^*$ -NORMAL SPACES

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### Abstract

In this paper, we introduce  $\beta^*$ -regular spaces in topological spaces. We prove that every subspace of a  $\beta^*$ -regular space is  $\beta^*$ -regular space and obtain characterization of  $\beta^*$ -regular spaces. Also, we introduce and study the notion of  $\beta^*$ -normal spaces,  $\beta^*$ - $T_0$ -spaces and  $\beta^*$ - $T_1$ -spaces and  $\beta^*$ - $T_2$ -spaces and some of their properties are obtained.

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Key Words and Phrases :  $\beta^*$ -regular,  $\beta^*$ -normal,  $\beta^*$ - $T_0$ -space,  $\beta^*$ - $T_1$ -space,  $\beta^*$ - $T_2$ -space.

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