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***A  $\beta$ -normal Tychonoff space which is not normal***

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**Abstract:**  $\alpha$ -normality and  $\beta$ -normality are properties generalizing normality of topological spaces. They consist in separating dense subsets of closed disjoint sets. We construct an example of a Tychonoff  $\beta$ -normal non-normal space and an example of a Hausdorff  $\alpha$ -normal non-regular space.

**Keywords:**  $\alpha$ -normal,  $\beta$ -normal, closed unbounded

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