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*A generalization of a generic theorem in the theory of cardinal invariants of topological spaces*

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**Abstract:** The main goal of this paper is to establish a technical result, which provides an algorithm to prove several cardinal inequalities and relative versions of cardinal inequalities related to the well-known Arhangel'skii's inequality: If  $X$  is a  $T_2$ -space, then  $|X| \leq 2^{\mathcal{L}(X)\chi(X)}$ . Moreover, we will show relative versions of three well-known cardinal inequalities.

**Keywords:** cardinal functions, cardinal inequalities

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