## Alejandro Ramírez-Páramo On the cardinality of Hausdorff spaces and Pol-Šapirovskii technique

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Abstract: In this paper we make use of the Pol-Šapirovskii technique to prove three cardinal inequalities. The first two results are due to Fedeli [2] and the third theorem of this paper is a common generalization to: (a) (Arhangel'skii [1]) If X is a  $T_1$  space such that (i)  $L(X)t(X) \leq \kappa$ , (ii)  $\psi(X) \leq 2^{\kappa}$ , and (iii) for all  $A \in [X]^{\leq 2^{\kappa}}$ ,  $|\overline{A}| \leq 2^{\kappa}$ , then  $|X| \leq 2^{\kappa}$ ; and (b) (Fedeli [2]) If X is a  $T_2$ -space then  $|X| \leq 2^{aql(X)t(X)\psi_c(X)}$ .

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