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SPACES DETERMINED BY SELECTIONS

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A function $\varphi : [X]^2 \rightarrow X$ is called a weak selection if $\varphi(\{x, y\}) \in \{x, y\}$ for every $x, y \in X$. To each weak selection φ on X , we can associate a topology τ_φ , generated by the sets $(\leftarrow, x) = \{y \neq x : \varphi(\{x, y\}) = y\}$ and $(x, \rightarrow) = \{y \neq x : \varphi(\{x, y\}) = x\}$. In this talk, we will present some results with respect to spaces whose topology is determined by a weak selection. In particular, we answer two questions of Gutev and Nogura as well as a question of Garca-Ferreira and Tomita.

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