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Cardinal inequalities implying maximal resolvability

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Abstract: We compare several conditions sufficient for maximal resolvability of topological spaces. We prove that a space X is maximally resolvable provided that for a dense set $X_0 \subset X$ and for each $x \in X_0$ the π -character of X at x is not greater than the dispersion character of X . On the other hand, we show that this implication is not reversible even in the class of card-homogeneous spaces.

Keywords: maximally resolvable space, base at a point, π -base, π -character

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