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Some non-multiplicative properties are l -invariant

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Abstract: A cardinal function φ (or a property \mathcal{P}) is called l -invariant if for any Tychonoff spaces X and Y with $C_p(X)$ and $C_p(Y)$ linearly homeomorphic we have $\varphi(X) = \varphi(Y)$ (or the space X has \mathcal{P} ($\equiv X \vdash \mathcal{P}$) iff $Y \vdash \mathcal{P}$). We prove that the hereditary Lindelöf number is l -invariant as well as that there are models of ZFC in which hereditary separability is l -invariant.

Keywords: l -equivalent spaces, l -invariant property, hereditary Lindelöf number

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