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LARGE ORDERED ARCS

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Given a metric continuum X , let $C(X)$ be the hyperspace of subcontinua of X . A Large Ordered Arc (LOA) in $C(X)$ is a subcontinuum A of $C(X)$ such that A is an arc joining an element of the form x (x in X) to X and satisfying that if B, C are elements of A , then B is a subset of C or C is a subset of B . Let $\text{LOA}(X)$ be the space of all LOA in $C(X)$, considered as a subspace of $C(C(X))$. For a given x in X , let $\text{LOA}(x, X)$ be the subspace of $\text{LOA}(X)$ consisting of all LOA in $C(X)$ that contain x . In this talk we present some results on $\text{LOA}(X)$ and $\text{LOA}(x, X)$. For example we can prove that $\text{LOA}(x, X)$ always is either a singleton or a Hilbert cube.

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