The hyperspace of large order arcs

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A continuum is a compact connected metric space. Given a continuum *X*, let *C*(*X*) denote the hyperspace of non-empty subcontinua of *X*, metrized with the Hausdorff metric. A large order arc in *C*(*X*) is an arc \mathcal{L} in *C*(*X*) joining *X* to an element of the form {*x*}, for some $x \in X$, and such that for every pair $A, B \in \mathcal{L}$, we have that $A \subset B$ or $B \subset A$. Let LOA(X) denote the set consisting of all large order arcs in *C*(*X*), considered as a subspace of *C*(*C*(*X*)). In this talk we present several topological properties of LOA(X) and its relations to topological properties of *X*.

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