Cook continua as a tool in topological dynamics

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A Cook continuum C is a nondegenerate metric continuum such that for every subcontinuum K and every continuous map $f: K \to C$ either f is constant or f(x) = x for all $x \in K$.

One can hardly imagine that Cook continua could be useful in topological dynamics, say for constructing spaces admitting an interesting nontrivial dynamics. We will controvert this by indicating that they can be glued together to obtain continua giving an answer to a problem in the theory of topological sequence entropy (for details see [1]).

 L. SNOHA, X. YE, AND R. ZHANG, Topology and topological sequence entropy, Sci. China Math., 63 (2020), pp. 205–296.

