A. Hajnal On Pixley-Roy hyperspaces

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On Pixley-Roy hyper, spaces.

A. Hainal

This is a joint work with I. Juhász to appear in Topology and its Appl. Let X be a topological space. X is said to have property C if for all $X \in [X]^{\Omega}$ any family of cardinality \mathcal{H}_{Ω} of open subsets of X has a countable network.

Theorem 1. Assuming C.H. there exists a O-dimensional Hausdorff space X having property C such that the Pixley-Roy hyperspace F[X] does not satisfy the countable chain condition.

Theorem 2. Assuming MA 1, a T2 space X satisfies condition C iff its Pixley-Roy hyperspace satisfies the countable chain condition.