A. Hajnal

On Pixley-Roy hyperspaces

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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 $X' \in [X]^{\omega_1}$ any family of cardina-
lity $\aleph_1$ of open subsets of X' has a countable network.

Theorem 1.   Assuming C.H. there exists a 0-dimensional Haus-
dorff space X having property C such that the Pixley-Roy
hyperspace $F[X]$ does not satisfy the countable chain condi-
tion.

Theorem 2.   Assuming $MA_{\aleph_1}$, a T_2 space X satisfies condi-
tion C iff its Pixley-Roy hyperspace satisfies the counta-
ble chain condition.