

Some new coanalytic complete collections of continua in cubes

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Abstract: The families of C-continua (in the sense of B. E. Wilder: for each x, y, z there is a subcontinuum containing x and only one of the points y and z) in a Euclidean cube D of dimension at least two (or in the Hilbert cube) are coanalytic complete subsets of the hyperspace 2^D of all nonempty compacta in D . As a consequence, a simple proof is obtained of the known fact (due to Camerlo, Darji and Marcone) that dendroids in D form a coanalytic complete subset.