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*Some Chebyshev Sets in Hyperspaces*

A set in a metric space has the "Chebyshev property" if the metric projection function is well defined; that is, if every point has a unique nearest neighbour. In Euclidean spaces this is very closely related to convexity; but even in comparatively familiar spaces such as the "taxicab plane" neither property implies the other.

By a hyperspace over a metric space we understand a collection of compact sets with the Hausdorff metric. There are various apparently unrelated types of Chebyshev set in such hyperspaces; we will examine some of these and look at some results and conjectures that might lead to a complete characterization.