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A note on D-spaces

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Abstract: Every semi-stratifiable space or strong Σ -space has a σ -cushioned $(\text{mod}k)$ -network. In this paper it is showed that every space with a σ -cushioned $(\text{mod}k)$ -network is a D-space, which is a common generalization of some results about D-spaces.

Keywords: D-spaces, $(\text{mod}k)$ -networks, cushioned collections, semi-stratifiable spaces

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