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Relatively realcompact sets and nearly pseudocompact spaces

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Abstract: A space is said to be nearly pseudocompact iff $vX - X$ is dense in $\beta X - X$. In this paper relatively realcompact sets are defined, and it is shown that a space is nearly pseudocompact iff every relatively realcompact open set is relatively compact. Other equivalences of nearly pseudocompactness are obtained and compared to some results of Blair and van Douwen.

Keywords: nearly pseudocompact, nearly realcompact, G_δ -relatively realcompact, relatively realcompact, relatively pseudocompact, relatively compact, nowhere locally compact

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