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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,  $G_\delta$ -relatively realcompact, relatively realcompact, relatively pseudocompact, relatively compact, nowhere locally compact

**AMS Subject Classification:** 54D30, 54D60, 54D35, 54D45, 54D99, 54C45