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Pseudocompactness and the cozero part of a frame

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Abstract: A characterization of the cozero elements of a frame, without reference to the reals, is given and is used to obtain a characterization of pseudocompactness also independent of the reals. Applications are made to the congruence frame of a σ -frame and to Alexandroff spaces.

Keywords: pseudocompact frames, σ -frames, cozero elements and Alexandroff spaces

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