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Rectangular covers of products missing diagonals

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Abstract: We give a characterization of a paracompact Σ -space to have a G_δ -diagonal in terms of three rectangular covers of $X^2 \setminus \Delta$. Moreover, we show that a local property and a global property of a space X are given by the orthocompactness of $(X \times \beta X) \setminus \Delta$.

Keywords: Σ -space, G_δ -diagonal, σ -closure-preserving, σ -cushioned, rectangular cover,

orthocompact, metacompact, Fréchet space

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