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*Rectangular covers of products missing diagonals*

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**Abstract:** We give a characterization of a paracompact  $\Sigma$ -space to have a  $G_\delta$ -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:**  $\Sigma$ -space,  $G_\delta$ -diagonal,  $\sigma$ -closure-preserving,  $\sigma$ -cushioned, rectangular cover,

orthocompact, metacompact, Fréchet space

**AMS Subject Classification:** 54B10, 54D20, 54E18