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SPECTRAL PROPERTY OF OPERATOR MATRICES

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Let H and K be Banach spaces, let $B(H,K)$ denote the set of bounded linear operators from H to K, and abbreviate $B(H,H)$ to $B(H)$. For the operators $A \in B(H)$, $B \in B(K)$ and $C \in B(K,H)$, let M_C denote the operator matrices in $B(H \oplus K)$ defined with

$$M_C = \begin{pmatrix} A & C \\ 0 & B \end{pmatrix} : H \oplus K \to H \oplus K.$$

In this talk we will describe some of spectral properties of operator matrices M_C trough the same properties of operators A and B like as: spectral continuity, single values extension property, (sub-)scalarity and etc.