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THE K-RANK NUMERICAL RADII

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ABSTRACT. The k -rank numerical range $\Lambda_k(A)$ is expressed via an intersection of any countable family of numerical ranges $\{F(M_\nu^*AM_\nu)\}_{\nu \in \mathbb{N}}$ with respect to $n \times (n - k + 1)$ isometries M_ν . This implication for $\Lambda_k(A)$ provides further elaboration of the k -rank numerical radii of A .

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