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On the numerical index of vector-valued function spaces. (English summary)

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Let X be a Banach space over \mathbb{C} or \mathbb{R} , and let $B(X)$ be the Banach algebra of all continuous linear operators on X . The numerical index of X , $n(X)$, is the infimum of all the numerical radii of operators in the unit sphere of $B(X)$. The main result of the article (Theorem 2.1) states that for every p , $1 \leq p < \infty$,

$$n(l_p(X)) = \lim_m n(l_p^m(X)).$$

The result is an extension of the first-named author in [Linear Algebra Appl. **403** (2005), 86–96; MR2140274 (2006f:47005)].

Reviewed by *Jor-Ting Chan*

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Note: This list reflects references listed in the original paper as accurately as possible with no attempt to correct errors.

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