

**Katsaras, A. K.; Perez-Garcia, C.**

$\Lambda_0$ -nuclear operators and  $\Lambda_0$ -nuclear spaces in  $p$ -adic analysis. (English) Zbl 0948.46052  
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Summary: For a Köthe sequence space, the classes of  $\Lambda_0$ -nuclear spaces and spaces with the  $\Lambda_0$ -property are introduced and studied and the relation between them is investigated. Also, we show that, for  $\Lambda_0 \neq c_0$ , these classes of spaces are in general different from the corresponding ones for  $\Lambda_0 = c_0$ , which have been extensively studied in the non-Archimedean literature.

**MSC:**

- 46S10 Functional analysis over fields other than  $\mathbb{R}$  or  $\mathbb{C}$  or the quaternions; non-Archimedean functional analysis Cited in 1 Document
- 46A45 Sequence spaces (including Köthe sequence spaces)
- 46A11 Spaces determined by compactness or summability properties (nuclear spaces, Schwartz spaces, Montel spaces, etc.)
- 47B10 Linear operators belonging to operator ideals (nuclear,  $p$ -summing, in the Schatten-von Neumann classes, etc.)

**Keywords:**

$p$ -adic functional analysis; nuclearity; compactoidity; Köthe sequence space;  $\Lambda_0$ -nuclear spaces;  $\Lambda_0$ -property

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