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THE HAUSDORFF MEASURE OF NONCOMPACTNESS OF MATRIX OPERATORS ON SOME *BK* SPACES

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Abstract. In the present paper, we establish some identities or estimates for the operator norms and the Hausdorff measures of noncompactness of certain matrix operators on the spaces c_0^λ and ℓ_∞^λ which have recently been introduced in [On the spaces of λ-convergent and bounded sequences, Thai J. Math. 8(2) (2010) 311–329]. Further, by using the Hausdorff measure of noncompactness, we characterize some classes of compact operators on these spaces.

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