

## A NOTE ON TRIANGULAR OPERATORS ON SMOOTH SEQUENCE SPACES

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*Abstract.* For a scalar sequence  $(\theta_n)_{n \in \mathbb{N}}$ , let  $C$  be the matrix defined by  $c_n^k = \theta_{n-k+1}$  if  $n \geq k$ ,  $c_n^k = 0$  if  $n < k$ . The map between Köthe spaces  $\lambda(A)$  and  $\lambda(B)$  is called a Cauchy Product map if it is determined by the triangular matrix  $C$ . In this note we introduced some necessary and sufficient conditions for a Cauchy Product map on a nuclear Köthe space  $\lambda(A)$  to nuclear  $G_1$ -space  $\lambda(B)$  to be linear and continuous. Its transpose is also considered.

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