

CONTINUITY BETWEEN SOME SPECIAL KÖTHE SPACES

EMRE TAŞTÜNER AND MURAT HAYRETTİN YURDAKUL

Abstract. In this work, we gave some necessary and sufficient conditions for a special lower triangular map from a nuclear Köthe space to a nuclear G_1 -space to be linear and continuous. Also, we considered its upper triangular version.

Mathematics subject classification (2020): 47B37, 46A45.

Keywords and phrases: ℓ^1 -Köthe spaces, nuclear spaces.

REFERENCES

- [1] L. CRONE, W. ROBINSON, *Diagonal maps and diameters in Köthe spaces*, Israel J. of Math., **17** (1975), 13–22.
- [2] R. MEISE, D. VOGT, *Introduction to Functional Analysis*, Clarendon Press, Oxford, 1997.
- [3] A. PIETSCH, *Nuclear Locally Convex Spaces*, Springer-Verlag, Berlin-New York, 1972.
- [4] M. S. RAMANUJAN, T. TERZIOĞLU, *Subspaces of smooth sequence spaces*, Studia Math., **65** (1979), 299–312.
- [5] E. UYANIK, M. YURDAKUL, *A note on triangular operators on smooth sequence spaces*, Oper. Matrices, **13** (2) (2019), 343–347.