

A NOTE ON NONDISTINGUISHED KOTHE SPACES OF INFINITE TYPE

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ABSTRACT: In this note it is proved that if $\lambda_\infty(A)$ is any nondistinguished Köthe echelon space of infinite order, then there is a linear form on its strong dual $(\lambda_\infty(A))'_b$ which is locally bounded (i.e. bounded on the bounded sets) but not continuous.