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***Köthe dual of Banach sequence spaces  $\ell_p[X]$  ( $1 \leq p < \infty$ ) and Grothendieck space***

Comment.Math.Univ.Carolinae 34,2 (1993) 265-273.

**Abstract:** In this paper, we show the representation of Köthe dual of Banach sequence spaces  $\ell_p[X]$  ( $1 \leq p < \infty$ ) and give a characterization of that the spaces  $\ell_p[X]$  ( $1 < p < \infty$ ) are Grothendieck spaces.

**Keywords:** vector-valued sequence space; Köthe dual; GAK-space; Grothendieck space

**AMS Subject Classification:** 46B16