

P13

~) DUALNÝ PRIESTOR K ℓ^p , $p > 1$

~) plati : $(\ell^p)' \cong \ell^q$; $\frac{1}{p} + \frac{1}{q} = 1$

~) popísanie, plati :

$\forall f \in (\ell^p)'$ $\exists ! \{f_k\}_{k=1}^{\infty} \in \ell^q$ tak, že :

$$f(x) = \sum_{k=1}^{\infty} x_k \cdot f_k ; \quad \forall x = \{x_k\} \in \ell^p$$

$$a : \quad \|f\| = \|\{f_k\}\|_q$$

DOPLNOK :

$\forall \{a_k\} \in \ell^p$ a $\forall \{b_k\} \in \ell^q$, kde $\frac{1}{p} + \frac{1}{q} = 1$, plati :

$$\sum_{k=1}^{\infty} |a_k b_k| \leq \|\{a_k\}\|_p \cdot \|\{b_k\}\|_q < \infty$$

HÖLDER