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APPROXIMATE CHARACTERIZATION OF UMD-VALUED BESOV SPACE
 $S_{p,\theta}^\alpha B(R^n, E)$ WITH DOMINATING MIXED DERIVATIVE

Abstract

In the paper the approximate description of Banach-valued Besov space $S_{p,\theta}^\alpha B(R^n, E)$, $p \in (1, \infty)^n$, $1 \leq \theta \leq \infty$, $E \in \text{UMD}$ with dominated mixed derivative by means of approximations of Cartesian crosses has been studied. In case $E = R$, $p \in (1, \infty)$ the analogous problem has been solved by S.M. Nikolski and P.N. Lizorkin.