

THE BOUNDEDNESS OF $B_{k,n}$ MAXIMAL FUNCTIONS IN SPACES $L_p^{r,s}(R_{k,+}^n)$

Abstract

In this work we consider the generalized Bessel-Fourier shift operator, by means of which defined and investigated Hardy-Littlewood-Bessel-Fourier maximal functions ($B_{k,n}$ -maximal functions). The boundedness of $B_{k,n}$ -maximal functions in $L_p^{r,s}(R_{k,+}^n) = L_p(R_{k,+}^n, x_{k,n}^{r,s} dx)$, $0 \leq k \leq n-1$, $1 \leq p \leq \infty$ spaces have been proved.

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$B_{k,n}$ -MAKSİMAL FUNKSİYANIN $L_p^{\gamma_{k,n}}(R_{k,+}^n)$
FƏZASINDA MƏHDUDLUĞU

İşdə Xardi-Litvud-Bessel-Furye maksimal funksiyasının ($B_{k,n}$ -maksimal funksiyasının) $L_p^{\gamma_{k,n}}(R_{k,+}^n) = L_p(R_{k,+}^n, x_{k,n}^{\gamma_{k,n}} dx)$, $0 \leq k \leq n-1$, $1 \leq p \leq \infty$ fəzasında məhdudluğu isbat edilmişdir.