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INTEGRAL CHARACTERISTICS OF $B_{\nu,n}$ MAXIMAL FUNCTIONS

Abstract

In this work we consider the generalized Bessel-Fourier shift operator, by means of which Hardy-Littlewood-Bessel-Fourier maximal functions ($B_{k,n}$ -maximal functions) are defined and investigated. The boundedness of $B_{k,n}$ -maximal functions from $L_1^{\gamma_{k,n}}\left(1+\ln^+L_1^{\gamma_{k,n}}\right)\left(R_{k,+}^n\right)=L_1\left(1+\ln^+L_1\right)\left(R_{k,+}^n,x_{k,n}^{\gamma_{k,n}}dx\right) \quad \text{space} \quad \text{to} \quad \text{space} \quad L_1^{\gamma_{k,n}}\left(R_{k,+}^n\right)\equiv L_1\left(R_{k,+}^n,x_{k,n}^{\gamma_{k,n}}dx\right) \quad \text{is proved.}$