

ON MAXIMAL FUNCTION AND FRACTIONAL INTEGRAL, ASSOCIATED WITH THE BESSEL DIFFERENTIAL OPERATOR

VAGIF S. GULIEV

Abstract. In this paper we consider the generalized shift operator, generated by Bessel differential operator B , by means of which maximal functions (B -maximal functions) and fractional integrals (B -fractional integrals) are investigated. The $L_p(B)$ -boundedness result for the B -maximal function and $(L_p(B), L_q(B))$ -boundedness result for the B -fractional integral are obtained.

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