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.

Key words and phrases: Bessel differential operator, $B$-maximal function, $B$-fractional integral.

REFERENCES