
USHANGI GOGINA

Abstract. The main aim of this paper is to prove that the maximal operator $\sigma^#$ of the Marcinkiewicz–Fejér means of the two-dimensional Fourier series with respect to the Walsh-Kaczmarz system is bounded from the martingale Hardy space $H_{1/2}$ to the space weak-$L_{1/2}$ and is not bounded from the martingale Hardy space $H_{1/2}$ to the space $L_{1/2}$ provided that the supremum in the maximal operator is taken over spatial indices.


Keywords and phrases: Walsh function, Hardy space, maximal operator.

REFERENCES