MAXIMAL OPERATORS OF $T$ MEANS WITH RESPECT TO WALSH–KACZMARZ SYSTEM

NATA GOGOLASHVILI and GEORGE TEPHNADZE*

Abstract. In this paper we prove and discuss some new $(H_p, L_\infty)$ type inequalities of the maximal operators of $T$ means with monotone coefficients with respect to Walsh-Kaczmarz system. It is also proved that these results are the best possible in a special sense. As applications, both some well-known and new results are pointed out. In particular, we apply these results to prove a.e. convergence of such $T$ means.


Keywords and phrases: Walsh-Kaczmarz system, $T$ means, martingale Hardy space.

REFERENCES


