ALMOST EVERYWHERE CONVERGENCE OF
DYADIC TRIANGULAR–FEJÉR MEANS OF
TWO–DIMENSIONAL WALSH–FOURIER SERIES

GYÖRGY GÁT AND USHANGI GOGINA VA

Abstract. It is proved that the maximal operators of the dyadic triangular-Fejér means of two-dimensional Walsh-Fourier series is of weak type (1,1). Moreover, the dyadic triangular-Fejér means of the function $f \in L_1$ converge almost everywhere to $f$ as $n \to \infty$.


Keywords and phrases: Two-dimensional Walsh system, triangular means, Hardy spaces, almost everywhere summability.

REFERENCES


