

**ALMOST EVERYWHERE CONVERGENCE
AND BOUNDEDNESS OF CESÀRO- α ERGODIC
AVERAGES IN $L_{p,q}$ -SPACES**

F. J. MARTÍN-REYES AND M. D. SARRIÓN GAVILÁN

Abstract

Let (X, μ) be a σ -finite measure space and let τ be an ergodic invertible measure preserving transformation. We study the a.e. convergence of the Cesàro- α ergodic averages associated with τ and the boundedness of the corresponding maximal operator in the setting of $L_{p,q}(w d\mu)$ spaces.

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