

A SUPPLEMENT TO THE STRONG LAWS FOR WEIGHTED SUMS OF φ -MIXING RANDOM VARIABLES

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Abstract. Some complete convergence theorems for linear statistics that are weighted sums $\sum_{i=1}^n a_{ni}X_i$ are established, where $\{X_n; n \geq 1\}$ is a sequence of φ -mixing random variables and $\{a_{ni}; 1 \leq i \leq n, n \geq 1\}$ is an array of constants. As an application, the Marcinkiewicz-Zygmund strong law of large numbers for weighted sums of φ -mixing random variables is obtained.

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