Journal of Mathematical Inequalities
Volume 16, Number 4 (2022), 1541–1555
doi:10.7153/jmi-2022-16-100

$\mathscr{L}_p$–CONVERGENCE FOR WEIGHTED SUMS OF ARRAYS OF ROWWISE EXTENDED NEGATIVELY DEPENDENT RANDOM VARIABLES

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Abstract. In this paper, $\mathscr{L}_p$-convergence for weighted sums of arrays of rowwise extended negatively dependent (rowwise END) random variables are investigated and some sufficient conditions for convergence are established. Additionally, the relationships among the convergence rates, weights of the sums and the dominating sequence of the rowwise END arrays are in a sense revealed. The results obtained in this paper generalise some corresponding ones for independent and some dependent random variables.

Mathematics subject classification (2020): 60F15.
Keywords and phrases: $\mathscr{L}_p$ convergence, rowwise END arrays, weighted sums.

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Paper JMI-16-100