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## ON THE CENTRAL LIMIT THEOREM FOR INDEPENDENT RANDOM VARIABLES WITH ALMOST SURE CONVERGENCE

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Abstract: We obtain an almost sure convergence limit theorem for independent nonidentically distributed random variables. Let  $S_n$ ,  $n \ge 1$ , be the partial sums of independent random variables with zero means and finite variances and let a(x) be a real function. We present sufficient conditions under which in logarithmic means  $a(S_n/(ES_n^2)^{1/2})$  converges almost surely to  $\int_{-\infty}^{\infty} a(x)d\Phi(x)$ .

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