A NOTE ON CONVERGENCE RATES IN THE STRONG LAW FOR STRONG MIXING SEQUENCES

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Abstract: For partial sums \( \{S_n\} \) of a stationary ergodic sequence \( \{X_n\} \) with zero mean we find conditions for

\[
\sum_{n=1}^{\infty} n^{\gamma-1} \Pr\{\sup_{k\geq n}(S_n/k) > \varepsilon\} < \infty
\]

in terms of the strong mixing coefficients \( \{\alpha_n\} \) and moments of certain functions of the marginal incremental variable \( X_1 \).

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