

AN ERDÖS-RÉNYI LAW FOR MIXING PROCESSES

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*Abstract:* We prove a large deviation type result for  $\psi$ -mixing processes and derive an ergodic version of the Erdős-Rényi law. The result applies to expanding and Gibbs-Markov dynamical systems, including Gibbs measures and continued fractions.

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**Key words and phrases:** Erdős-Rényi law, large deviation, Gibbs-Markov map.

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