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Herold Dehling\* (herold.dehling@rub.de), Fakultät für Mathematik, Ruhr-Universität Bochum, D-44780 Bochum, Germany, and Olivier Durieu and Dalibor Volny. Empirical Process Invariance Principle for Markov Chains.

We investigate empirical process invariance principles for Markov chains and dynamical systems under weak conditions. We have developed a technique of proof that can generally be applied when a central limit theorem and a moment bound are known for partial sums of Lipschitz functions of the process. Our proof uses a variant of chaining techniques together with an improved version of Theorem 4.2. of Billingsley's 1968 book. (Received February 04, 2008)