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Title: Limits of random iterates

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Given a probability space $(\Omega, \mathcal{A}, P)$, a nonempty subset X of a separable Banach space Y and an rv-function $f : X \times \Omega \rightarrow X$, we assume that the sequence of iterates of f converges to a function $\xi : X \times \Omega^\infty \rightarrow Y$. We give conditions on f and types of convergence which imply continuity of ξ with respect to the first variable. A possible application of obtained results to iterative equations is presented.

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