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Antisymmetric functionals of reversible Markov processes. (English) Zbl 0813.60023
Ann. Inst. Henri Poincaré, Probab. Stat. 31, No. 1, 177-190 (1995).

Summary: We prove the central limit theorem and invariance principle for antisymmetric functionals of ergodic reversible Markov processes under extremely mild conditions. Moreover, the proof is based upon an elementary, direct decomposition of the functional, into the sum of a martingale term and an asymptotically negligible term, by an analysis relying almost solely on symmetry considerations.

MSC:

[60F05](#) Central limit and other weak theorems
[60F17](#) Functional limit theorems; invariance principles

Cited in 4 Documents

Keywords:

central limit theorem; invariance principle; antisymmetric functionals of ergodic reversible Markov processes

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