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Geometrically Constructed Markov Chain Monte Carlo Study

Key words and phrases. Geometric ergodicity, renewal theory, reversible Markov chain, Markov chain Monte Carlo, Metropolis's Hastings algorithm, spectral gap. This is an electronic reprint of the original article published by the Institute of Mathematical Statistics in The Annals of Applied Probability, 2005, Vol. 15, No. 1B, 700-738.

Renewal theory and computable convergence rates for

Furthermore, the multi-chain and two-dimensional spin-Peierls systems with interchain lattice interaction are investigated.

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Markov Chains 11.1 Introduction Most of our study of probability has dealt with independent trials processes. These processes are the basis of classical probability theory and much of statistics. We have discussed two of the principal theorems for these processes: the Law of Large Numbers and the Central Limit Theorem.

Markov Chains - Dartmouth College

Well-behaved solutions ϕ can be constructed for the "multiplicative Poisson equation" $(e^{\alpha F})\phi = \lambda \phi$, where P is the transition kernel of the Markov chain and α is a constant. The function ϕ is an eigenfunction, with corresponding eigenvalue λ , for the kernel $(e^{\alpha F})P = e^{\alpha F(x)}P(x, dy)$.

Spectral theory and limit theorems for geometrically

Hidemaro Suwa's "Geometrically Constructed Markov Chain Monte Carlo Study of Quantum Spin-phonon Complex Systems" Published: 2013-11-06 | ISBN: 4431545166, 4431563679 | PDF | 126 pages | 4.12 MB In this thesis, novel Monte Carlo methods for precisely calculating the critical phenomena of the effectively frustrated quantum spin system are developed and applied to the critical phenomena of the spin-Peierls systems.

Geometrically Constructed Markov Chain Monte Carlo Study

Suppose is a geometrically ergodic Markov chain and let F be a bounded, nonlattice, real-valued functional on the state space of . In Section 5, we obtain an Edgeworth expansion for the distribution function $G_n(y)$ of the normalized

SPECTRAL THEORY AND LIMIT THEOREMS FOR GEOMETRICALLY

Geometric ergodicity and the spectral gap Draft copy June 27, 2009 1 1 Introduction and Main Results There is increasing interest in spectral theory and rates of convergence for Markov chains.

Geometric Ergodicity and the Spectral Gap of Non

function can then be constructed on the resulting phase space which preserves a distribution for (x,p) , the x -marginal of which will be $\tilde{\mu}(\cdot)$. At each step of the ... integrated, they prove that the algorithm will produce a geometrically ergodic Markov chain whenever the tails of $\tilde{\mu}(x)$ decay at a Gaussian rate or faster. The

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that geometrically (and uniformly) ergodic Markov chains satisfy (3) with $E\tilde{\mu} < \hat{\mu}$. On the other hand, the polynomial drift (6) only seems to imply that $E\tilde{\mu} \leq \tilde{\mu}$, where $\tilde{\mu} < 1$.

On the Markov Chain Central Limit Theorem - Statistics

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An ergodic Markov chain with invariant distribution $\tilde{\mu}$ is geometrically ergodic if there exist a non-negative real-valued functions bounded in expectation under $\tilde{\mu}$ and a positive constant $r < 1$ such that:

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