
Random Attractors for stochastic lattice dynamical systems

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Abstract

In this talk I will present some recent results on the existence of pullback random attractors for stochastic lattice dynamical systems (SLDSs) with different type of white noise. In particular, I will first review existing results on first order SLDSs with finite multiplicative white noise, and infinite additive white noise in the weighted spaces of infinite sequences. Then I will introduce the most recent result on SLDSs with infinite multiplicative white noise, i.e., a different noise at each node, which requires different techniques from existing methodologies.

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