

Phase Transition on Frog Models

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Abstract

Frog model is one of interacting particle systems. We consider a system of interacting random walks consisting of graph, configuration of inactive particles and probability measure for the motions of active particles. The main interest of this model is once we fix a graph, configuration and probability measure, which is the most affective to the model and how delicate the model is. In words, if we tune some parameter, is there a phase transition between recurrence and transience? In this talk, I will introduce some results.