RESCALED LOTKA-VOLTERRA MODELS CONVERGE TO SUPER STABLE PROCESSES

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Abstract: Recently, it has been shown that stochastic spatial Lotka-Volterra models when suitably rescaled can converge to a super-Brownian motion with drift. We show that the limit process could be a super stable process if the kernel of the underlying motion is in the domain of attraction of a stable law. As applications of the convergence theorems, some new results on the voter model's asymptotics are obtained.