

S1 and S01 is zero. Then, providing only that $P_{S \to S1} > P_{S0 \to S01}$, (which is satisfied by the model (11) if $\varepsilon_0 < 1$) one iteration of (3) leads to $\rho'_{S0} > \rho'_{S}$. This occurs because it is more likely for particles in state S than those in S0 to move into the branches of the tree, thus the density in S decreases more.

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For this model, if the density begins as a monotone function of distance from a bounding invariant circle, it must remain monotone. However, a Markov tree model can account for nonmonotonicity of the density. Metaphorically, this occurs because the density on a large branch of the tree can more easily disperse into small

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