

We take resort to an appealing ansatz that states

$$\frac{S_t(\{k_1, \dots, k_d\})}{2(t+1)} \xrightarrow{a.s.} 0, \quad \text{as } t \rightarrow \infty$$

where k_1, \dots, k_d are the indices of the taboo vertices at time t . Assuming this, which still needs a rigorous proof, we get two tighter bounds.