



# Rate of Escape of Random Walks on Free Products of Groups

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Suppose we are given the free product  $\Gamma$  of a finite family of finitely generated groups  $(\Gamma_i)_{i \in \mathcal{I}}$  and probability measures on each  $\Gamma_i$ , which govern random walks on it. We consider a transient random walk on the free product arising naturally from the random walks on the  $\Gamma_i$ . We compute a formula for the rate of escape with respect to the block length, that is, the speed, at which the random walk escapes to infinity.



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