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On concentrated probabilities on non locally compact groups

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Abstract: Let G be a Polish group with an invariant metric. We characterize those probability measures μ on G so that there exist a sequence $g_n \in G$ and a compact set $A \subseteq G$ with $\mu^{*n}(g_n A) \equiv 1$ for all n .

Keywords: concentration function, random walk, Markov operator, invariant measure

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