

DOMAINS OF ATTRACTION OF STABLE MEASURES ON THE
HEISENBERG GROUP

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Abstract: Let H_d be the $(2d + l)$ -dimensional Heisenberg group and $(\mu_t)_{t \geq 0}$ be a continuous convolution semigroup of probability measures on H_d . Let moreover μ_1 be full. A probability measure ν is said to *belong to the domain of attraction* of μ_1 if there exists a sequence $(\sigma_n)_n$ of automorphisms of H_d such that $\sigma_n \nu^n \rightarrow \mu_1$ weakly. We prove some simple necessary and sufficient conditions on ν for the existence of such automorphisms if $(\mu_t)_{t \geq 0}$ has no Gaussian component. Furthermore, the domain of normal attraction of a Gaussian measure on H_d is considered.

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