

A LÉVY KHINTCHINE TYPE REPRESENTATION OF CONVOLUTION
SEMIGROUPS ON COMMUTATIVE HYPERGROUPS

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Abstract: We first study Lévy measures, Poisson and Gaussian convolution semigroups on commutative hypergroups. Then we present a Lévy-Khintchine type representation of a convolution semigroup $(\mu_t)_{t>0}$ with symmetric Lévy measure λ of the form $\mu_t = \gamma_t * e(t\lambda)$, $t \geq 0$, for some Poisson semigroup $(e(t\lambda))_{t>0}$ and some Gaussian semigroup $(\gamma_t)_{t>0}$.

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