

1106-46-628

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We consider semigroups, under composition, of transformations of the upper-half-plane over a C^* -algebra. Under mild continuity assumptions, we show that such a semigroup has an infinitesimal generator, which determines it. Under stronger assumption that the transformations are F -transforms of distributions, we obtain a detailed description of the generator. This allows us to extend the operator-valued Bercovici-Pata bijection to monotone convolution. (Received September 03, 2014)