Murugan, S. P.
Measurable $E_0$-semigroups are continuous. (English) Zbl 07399348

Summary: Let $G$ be a second countable locally compact Hausdorff topological group and $P$ be a closed subsemigroup of $G$ containing the identity element $e \in G$. Assume that the interior of $P$ is dense in $P$. Let $\alpha = \{ \alpha_x \}_{x \in P}$ be a semigroup of unital normal $\ast$-endomorphisms of a von Neumann algebra $M$ with separable predual satisfying a natural measurability hypothesis. We show that $\alpha$ is an $E_0$-semigroup over $P$ on $M$.

MSC:
46L55 Noncommutative dynamical systems
46L99 Selfadjoint operator algebras ($C^\ast$-algebras, von Neumann $(W^\ast)$ algebras, etc.)

Keywords:
$E_0$-semigroups; von Neumann algebra; normal $\ast$-homomorphism; Ore semigroup

Full Text: DOI

References:


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