Scalarly weakly almost periodic distal representations are strongly almost periodic. (English)

Junghenn, H. D.


Summary: Kadets and Lyubich have shown that a weakly almost periodic representation of a topological group on a Banach space has the property that a vector with almost periodic coefficients is almost periodic. In this paper we obtain the analogous result for distal representations of semigroups on quasi-complete locally convex spaces, removing the condition that the representation be weakly almost periodic and requiring only that the coefficients of the representation be weakly almost periodic.

MSC:

20M30 Representation of semigroups; actions of semigroups on sets
28B05 Vector-valued set functions, measures and integrals
43A05 Measures on groups and semigroups, etc.
43A60 Almost periodic functions on groups and semigroups and their generalizations (recurrent functions, distal functions, etc.); almost automorphic functions
47D03 Groups and semigroup of linear operators
60B15 Probability measures on groups or semigroups, Fourier transforms, factorization

Keywords:

semitopological semigroup; locally convex space; semigroup representation; weakly almost periodic; almost periodic; distal

Full Text: DOI

References:


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