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

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 func-
tions, distal functions, etc.); almost automorphic functions
47D03 Groups and semigroups 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:
New York-London-Paris · Zbl 0192.48602
· Zbl 0034.06404
· doi:10.1007/BF02559535
· doi:10.1007/BF02559536
· doi:10.1007/BF01166575
[10] Kadets, M. I.; Lyubich, Yu. I., On the relations between different forms of almost periodicity of representations of groups,
(1984), Springer-Verlag, Berlin · Zbl 0606.22001 · doi:10.1007/BFb0073675

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