

Botelho, Geraldo; Pellegrino, Daniel; Rueda, Pilar; Santos, Joedson; Seoane-Sepúlveda, Juan Benigno

When is the Haar measure a Pietsch measure for nonlinear mappings? (English)

Zbl 1276.28028

Stud. Math. 213, No. 3, 275-287 (2012).

Authors' abstract: "We show that, as in the linear case, the normalized Haar measure on a compact topological group G is a Pietsch measure for nonlinear summing mappings on closed translation invariant subspaces of $C(G)$. We also show that our result applies to several well-studied classes of nonlinear summing mappings. In the final section, some problems are proposed."

One of the open problems reads as follows.

Let F be a closed translation invariant subspace of $C(G)$, let X be a metric space and $f : F \rightarrow X$ be a translation invariant Lipschitz p -summing mapping. Is the Haar measure a Pietsch measure for f ?

Reviewer: Joe Howard (Portales)

MSC:

- 28C10 Set functions and measures on topological groups or semigroups, Haar measures, invariant measures
- 47B10 Linear operators belonging to operator ideals (nuclear, p -summing, in the Schatten-von Neumann classes, etc.)

Cited in 1 Document

Keywords:

Haar measure; Pietsch measure; nonlinear mapping

Full Text: DOI