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(σ, σ)-derivation and (σ, τ)-weak amenability of Beurling algebra. (English) [Zbl 07429170]


Summary: Let $G$ be a topological group with a locally compact and Hausdorff topology. Let $ω$ be a diagonally bounded weight on $G$. In this paper, $(σ, σ)$-derivation and $(σ, τ)$-weak amenability of the Beurling algebra $L^1_ω(G)$ are studied, where $σ, τ$ are isometric automorphisms of $L^1_ω(G)$. We prove that every continuous $(σ, σ)$-derivation from $L^1_ω(G)$ into measure algebra $M_ω(G)$ is $(σ, σ)$-inner and the Beurling algebra $L^1_ω(G)$ is $(σ, τ)$-weakly amenable.

MSC:

47B49 Transformers, preservers (linear operators on spaces of linear operators)

46K15 Hilbert algebras

Keywords:

(σ, σ)-derivation; (σ, τ)-weak amenability; Beurling algebras

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References:


