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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 \( \omega \) be a diagonally bounded weight on \( G \). In this paper, \((\sigma, \sigma)\)-derivation and \((\sigma, \tau)\)-weak amenability of the Beurling algebra \( L_1^\omega(G) \) are studied, where \( \sigma, \tau \) are isometric automorphisms of \( L_1^\omega(G) \). We prove that every continuous \((\sigma, \sigma)\)-derivation from \( L_1^\omega(G) \) into measure algebra \( M_\omega(G) \) is \((\sigma, \sigma)\)-inner and the Beurling algebra \( L_1^\omega(G) \) is \((\sigma, \tau)\)-weakly amenable.

MSC:
47B49 Transformers, preservers (linear operators on spaces of linear operators)
46K15 Hilbert algebras

Keywords:
\((\sigma, \sigma)\)-derivation; \((\sigma, \tau)\)-weak amenability; Beurling algebras

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References:


- Zbl 1159.46028

- Zbl 1336.43005

- Zbl 1295.46035

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