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\((\sigma, \sigma)\)-derivation and \((\sigma, \tau)\)-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:


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