

Approximation Property Pass to Free Product

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Abstract : On approximation properties of group C^* algebras is everywhere; it is powerful, important, backbone of countless breakthroughs. For a discrete group G , let $A(G)$ denote its Fourier algebra, and let $M_0A(G)$ denote the space of completely bounded Fourier multipliers on G . An approximate identity on G is a sequence (Φ_n) of finitely supported functions such that (Φ_n) uniformly converge to constant function 1. In this paper we prove that approximation property pass to free product.

Keywords : approximation property, weakly amenable, strong invariant approximation property, invariant approximation property

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