Strong invariant approximation property for discrete groups

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Abstract

Let G be a countable exact discrete group. We show that G has the approximation property if and only if $C^*_u(G, S)^G = C_\lambda(G) \otimes S$ for any Hilbert space H and closed subspace $S \subseteq H$, we have where $C^*_u(G)$ is the uniform Roe algebra. This answers a question of J. Zacharias.

Author keywords

Invariant approximation property; Strong invariant approximation property; Uniform Roe algebras