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Example of groups without the strong invariant approximation property

M. Annanthakrishna and K. Kannan*

Department of Mathematics and Statistics, University of Jaffna, Jaffna, Sri Lanka

A countable exact discrete group G has the strong invariant approximation property (SIAP) if and only iff or any Hilbert space H and closed subspace $S \subseteq H$

$$C_U^*(G,S)^G = C_\lambda^*(G) \otimes S$$

for any Hilbert space H and closed sub space $S \subseteq H$. We have shown that lattice in $SL_n(Z)$ is an exact group without strong invariant approximation property.

Keywords: Strong Invariant Approximation Property, Uniform Roe algebras, Invariant Approximation Property.

^{*}p kkannan@yahoo.com