

\mathcal{Z} -stability of crossed products

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Abstract

Jiang-Su stability is a fairly prevalent property, and it is preserved by a number of standard constructions for C^* -algebras. We are interested in studying preservation by formation of crossed products by actions of amenable groups, and we focus on the case of simple, nuclear C^* -algebras. Even though we are far from having a general result, several special cases are known, and I will report on recent progress in this direction. My talk will be based on joint works with Ilan Hirshberg and Andrea Vaccaro, and with Shirly Geffen, Petr Naryshkin and Andrea Vaccaro.