CROSSED PRODUCTS AND MF ALGEBRAS

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Abstract. We prove that the crossed product $\mathcal{A} \rtimes_{\alpha} G$ of a unital finitely generated MF algebra $\mathcal{A}$ by a discrete finitely generated amenable residually finite group $G$ is an MF algebra, provided that the action $\alpha$ is almost periodic. This generalizes a result of Hadwin and Shen. We also construct two examples of crossed product $C^*$-algebras whose BDF $\text{Ext}$ semigroups are not groups.


Keywords and phrases: MF algebras, crossed products, BDF $\text{Ext}$ semigroups, amenable groups, residually finite groups.

REFERENCES