

Simplicity of the C^* -algebras of skew product k -graphs

BEN MALONEY AND DAVID PASK

Received 21 March 2014; Revised 19 May 2014

ABSTRACT. We consider conditions on a k -graph Λ , a semigroup S and a functor $\eta : \Lambda \rightarrow S$ that ensure that the C^* -algebra of the skew-product graph $\Lambda \times_\eta S$ is simple. Our results give some necessary and sufficient conditions for the AF-core of a k -graph C^* -algebra to be simple.