

# Non-simple Rationally AF algebras and KMS states

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## Abstract

In order to realize all possible KMS-bundles on the Jiang-Su algebra, we introduce a class of  $C^*$ -algebras which we call rationally approximately finite dimensional (RAF). Using these, we show that for a given proper simplex bundle  $(S, \pi)$  with a singleton  $\pi^{-1}(0)$  and a unital separable monotracial  $C^*$ -algebra  $A$  absorbing the Jiang-Su algebra tensorially (for instance, the irrational rotation algebra), there exists a flow on  $A$  whose KMS-bundle is isomorphic to  $(S, \pi)$ . This is joint work with G. A. Elliott.