

Pushing forward the non-simple classification

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Abstract

In recent work, with Y. Sato, the early classification of AF algebras has been extended to the class of what might be called rationally AF algebras, where “rationally AF” means that the tensor product with an arbitrary (infinite-dimensional) Glimm UHF algebra is AF (approximately finite-dimensional). In the stable case, the invariant is the same as for AF algebras—of course, the range of the invariant is larger (rational dimension groups instead of just dimension groups). This result suggests considering also analogous classes, such as rationally AI algebras.