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*A generalization of AF algebras*

A classification is given (in collaboration with Yasuhiko Sato) of a class of non-simple C\*-algebras properly containing the class of AF algebras. It consists of those C\*-algebras the tensor product of which with every (infinite-dimensional) Glimm UHF algebra is AF. Strictly speaking, the type I algebras with this property are not included, although these are necessarily even AF. The reason is that, for technical reasons, one must restrict to Jiang-Su stable C\*-algebras (those absorbing tensorially the Jiang-Su C\*-algebra)—although this property may hold automatically if there are no type I subquotients. The invariant, in the unital case, is exactly the same as for AF algebras.