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Classifying (some) infinite free product C^ -algebras*

Abstract: There is a well-established program of classifying amenable C^* -algebras up to isomorphism using the Elliott invariant, consisting of K-theory and traces. This classification program establishes the largest class of C^* -algebras for which we can detect isomorphism using a reasonably computable invariant. We discuss some work-in-progress on classifying infinite reduced free products (which are always non-amenable) by the Elliott invariant in each of the factors of the free product. This is based on joint work-in-progress with Jakub Curda, Shanshan Hua, Gregory Patchell, Austin Shiner, and Stuart White, and inspired by recent work of Hirshberg and Phillips.