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Recovering the Elliott invariant from the Cuntz semigroup

The Cuntz semigroup has played a central role in the classification of C^* -algebras. It has been used to classify simple and non-simple C^* -algebras as well as to distinguish non-isomorphic C^* -algebras that have the same Elliott invariant. It has been shown that for finite, nuclear, simple, unital, and \mathcal{Z} -absorbing C^* -algebras the Elliott invariant can be recovered from the Cuntz semigroup and the K_1 -group. In this talk I will explain how for this class of C^* -algebras the Elliott invariant can also be recovered from the Cuntz semigroup of the tensor product of the C^* -algebra with the algebra of continuous functions on the circle.

This is a joint work with R. Antoine, M. Dadarlat and F. Perera.