

1138-46-277

Christopher Schafhauser* (cschafhauser@uwaterloo.ca), Pure Mathematics, University of Waterloo, 200 University Avenue West, Waterloo, Ontario N2L 3G1, Canada. *AF-embeddings of exact C^* -algebras*. Preliminary report.

A well known result of Kirchberg and Phillips states that every separable, exact C^* -algebra embeds into the Cuntz algebra O_2 . The following question of Blackadar and Kirchberg asks for a stronger result in the finite setting: does every separable, exact, quasidiagonal C^* -algebra embed into an AF-algebra? I will discuss a recent partial solution to this question: every separable, exact C^* -algebra which satisfies the UCT and admits a faithful, quasidiagonal trace embeds into an AF-algebra. In particular, every separable, simple, unital, exact, quasidiagonal C^* -algebra satisfying the UCT embeds into an AF-algebra. (Received February 12, 2018)