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Mikael Rordam* (rordam@math.ku.dk), Department of Mathematics, University of Copenhagen, Universitetsparken 5, 2100 Copenhagen, Denmark. *Elementary amenable groups are quasidiagonal.*

Rosenberg proved in 1987 that if the reduced group C^* -algebra of a group is quasidiagonal, then the group is amenable; and he conjectured that the reverse may also hold. We confirm Rosenberg's conjecture for the class of elementary amenable groups, and, in fact, a somewhat larger class. The proof uses results from the classification program of Elliott for simple nuclear C^* -algebras, in particular recent results of Matui and Sato in combination with the work of Lin, Winter and others.

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