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.

This is a joint work with N. Ozawa and Y. Sato. (Received September 02, 2014)