Brodzki, Jacek; Guentner, Erik; Higson, Nigel; Nishikawa, Shintaro

On the Baum-Connes conjecture for groups acting on CAT(0)-cubical spaces.  (English)

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Summary: We give a new proof of the Baum-Connes conjecture with coefficients for any second countable, locally compact topological group that acts properly and cocompactly on a finite-dimensional CAT(0)-cubical space with bounded geometry. The proof uses the Julg-Valette complex of a CAT(0)-cubical space introduced by the 1st three authors and the direct splitting method in Kasparov theory developed by the last author.

MSC:

22-XX    Topological groups, Lie groups
57-XX    Manifolds and cell complexes

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