Summary: We show that complex semisimple quantum groups, that is, Drinfeld doubles of $q$-deformations of compact semisimple Lie groups, satisfy a categorical version of the Baum-Connes conjecture with trivial coefficients. Our approach, based on homological algebra in triangulated categories, is compatible with the previously studied deformation picture of the assembly map and allows us to define an assembly map with arbitrary coefficients for these quantum groups.

MSC:
18-XX Category theory; homological algebra
14-XX Algebraic geometry

Full Text: DOI arXiv Link