THE BAUM-CONNES ASSEMBLY MAP VIA EXPLICIT EXAMPLES

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The Baum-Connes conjecture suggests a link between operator algebras and topology/geometry. The link is provided via the so-called assembly map and the conjecture is that this map is an isomorphism of two abelian groups; equivariant K-homology and K-theory of specific objects constructed from a group. It is known that the conjecture holds true for large classes of groups, including a-T-menable groups, however it is still open for linear groups. In this talk, I will provide an alternative proof for bijectivity of the assembly map of certain wreath product groups which are also a-T-menable. This proof employs the topological approach of Davis-Lück instead of the classical KK-picture of Kasparov and makes use of the particular semi direct product structure of wreath products.