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Inverting the assembly map (after S. Nishikawa)

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In a recent preprint (https://arxiv.org/abs/1808.08298), Nishikawa introduces a property (γ) for elements x in the Kasparov ring $R(G)$: it says that the Fredholm module defining x carries a compatible action of $C_0(X)$, where X is a G-compact model for the classifying space for proper actions of G. The basic observation is that x then defines a morphism $K_*(C_r^*(G)) \to KK^G(C_0(X),$
$C)$, that is a candidate for a right inverse for the Baum-Connes assembly map. It is proved that, if $x = 1$ in $R(G)$, it is indeed the case. Using this, new proofs of the Baum-Connes conjecture with coefficients are obtained for Euclidean motion groups, and for groups acting properly co-compactly on locally finite trees.

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