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Title: Proper Actions and Categorical Landstad Duality

Abstract: Given a free and proper action of a locally compact group G on a locally compact Hausdorff space X , we consider a comma category of C^* -dynamical systems (A, G, α) for which there is an equivariant homomorphism of $C_0(X)$ into $M(A)$. We show that Rieffel's fixed-point algebra construction gives rise to a functor on this category which is naturally equivalent to a reduced-crossed-product functor.

As an application, we derive a categorical version of Landstad duality for coactions; this in turn yields new information about Landstad duality for actions. This is joint work with John Quigg and Iain Raeburn.