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Title: Coverings of skew-products and crossed products by coactions

Abstract: Consider a projective limit G of finite groups G_n and a compatible family δ^n of coactions of the G_n on a C^* -algebra A . From this data we obtain a coaction δ of G on A , and indicate how the coaction crossed product is isomorphic to a direct limit of the coaction crossed products of A by the δ^n .

If $A = C^*(\Lambda)$ for some k -graph Λ , and if the coactions δ^n correspond to skew-products of Λ , then we can say more: the coaction crossed product may be realized as a full corner of the C^* -algebra of a $(k+1)$ -graph. Time permitting, I'll discuss connections with Yeend's topological higher-rank graphs and their C^* -algebras.

This is joint work with David Pask and Aidan Sims.