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Amenable groupoids and applications.

Abstract. Just as for groups, the notion of amenability is an important approximation property for groupoids. In particular, the C^* -algebra of an amenable groupoid is nuclear and its K -theory can be computed via the Baum-Connes map. I shall present a result about the amenability of groupoid extensions which is motivated by and applied to topological higher rank graph algebras. This is a joint work with D. Williams.