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Hecke algebras from groups acting on trees

We show that the Hecke algebras and  $C^*$ -algebras of some Hecke pairs of groups of automorphisms of homogeneous trees are semigroup crossed products, and use this to study their internal structure and their K-theory.

This is joint work with U. Baumgartner, J. Ramagge, and G. Willis.