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**Gabriel Feinberg\*** (gfeinberg@haverford.edu) and **Kyu-Hwan Lee**. *Homogeneous Representations of Khovanov-Lauda-Rouquier Algebras*.

The Khovanov-Lauda-Rouquier (KLR) algebra arose out of attempts to categorify quantum groups. Kleshchev and Ram proved a result reducing the representation theory of these algebras to the study of irreducible cuspidal representations. In finite types, these cuspidal representations are part of a larger class of homogeneous representations, which are related to fully commutative elements of Coxeter groups.

For KLR algebras of types  $A_n$  and  $D_n$ , we classify and enumerate these homogeneous representations. (Received September 09, 2014)