

Representation Theory, Geometry & Combinatorics Seminar

Organizer: M. Haiman and N. Reshetikhin

Wednesday, 4:00–6:00pm, 939 Evans

Nov. 4 **Damien Mondragon**, UCB

Representations of Quiver Hecke Algebras

Khovanov and Lauda (and independently Rouquier) have associated to any quiver with compatible automorphism a generalized ‘Hecke Algebra.’ In this talk, we will discuss the representation theory of these objects, which we call quiver Hecke Algebras. In particular, using the combinatorics of Lyndon words we are able to construct irreducible representations of the quiver Hecke Algebras associated to classical finite dimensional Cartan data.

This is joint work with David Hill and George Melvin.