

Representation Theory, Geometry & Combinatorics Seminar

Organizer: M. Haiman and K. Reshetikhin

Wednesday, 4:00–6:00pm, 939 Evans

Feb. 18 **Joel Kamnitzer**, Toronto

Categorical $sl(2)$ actions and equivalences of categories

I will discuss a new technique for constructing equivalences of derived categories of coherent sheaves. This allows us to construct equivalences between the derived categories of cotangent bundles to Grassmannians. Our work generalizes the spherical twists of Seidel-Thomas and is based on work of Chuang-Rouquier. This is joint work with Sabin Cautis and Anthony Licata.