Representation Theory, Geometry & Combinatorics Seminar

Organizer: M. Haiman and N. Reshetikhin

Wednesday, 4:00–6:00pm, 939 Evans

Sept. 2   **Lauren Williams**, UCB/MSRI

Positivity for cluster algebras from surfaces

I will start by giving an introduction to cluster algebras and the positivity conjecture of Fomin and Zelevinsky. Then I will describe the class of cluster algebras coming from triangulated surfaces (following work of Fomin-Shapiro-Thurston). This class contains "almost all" of the cluster algebras of finite mutation type. Finally I'll describe recent work with Gregg Musiker and Ralf Schiffler, which proves the positivity conjecture for cluster algebras from surfaces.