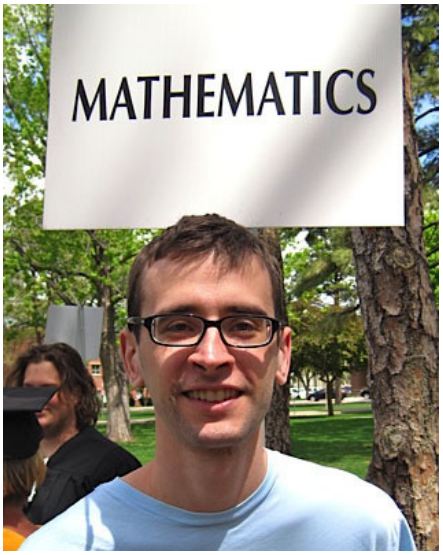
Department of Mathematics
University of Notre Dame

Max Glick - Ohio State University

CLUSTER ALGEBRAS SEMINAR

Speaker: Max Glick
Ohio State University



Date: Tuesday, November 12, 2019
Time: 12:00 PM
Location: 125 Hayes-Healy Hall

Lecture Title:
Vector-relation configurations and plabic graphs

Abstract
We study a simple geometric model for local transformations of bipartite graphs. The state consists of a choice of a vector at each white vertex made in such a way that the vectors neighboring each black vertex satisfy a linear relation. Evolution for different choices of the graph coincides with many notable dynamical systems including the pentagram map, Q-nets, and discrete Darboux maps. On the other hand, for plabic graphs we prove unique extendability of a configuration from the boundary to the interior, an elegant illustration of the fact that Postnikov's boundary measurement map is invertible.