



Speaker: Matt Hogancamp
Indiana University

Thursday, April 16, 2015
2:00 PM
125 Hayes-Healy Hall

Title: Categorification of Young symmetrizers

Abstract:

The classical Young symmetrizers play a prominent role in the representation theory of the symmetric group and its Hecke algebra, and can also be used to construct quantum link invariants. In this talk I will discuss joint work (in progress) with Ben Elias, in which we propose a method for categorifying the Young symmetrizers. Our idea is to develop a general notion of "eigendecomposition of categories" and apply this to Young symmetrizers. I will also discuss progress toward some exciting new conjectures of Gorsky-Rasmussen which relate the categorified symmetrizers with the flag Hilbert scheme.