
ANDREW HARDER, Lehigh University
Tropical homology and mirror symmetry

Tropical homology, introduced by Mikhalkin and Zharkov, gives a powerful combinatorial tool for describing Hodge numbers of projective varieties. In this talk, I will explain how one can use tropical homology to prove a conjecture of Katzarkov, Kontsevich, and Pantev for toric complete intersections. This is joint work in progress with Sukjoo Lee.