

“The computation of knot invariants of the link of a curve singularity becomes increasingly messy as the number of branches of the curve increases.”

— A. H. Durfee

The Trivial Notions Seminar Proudly Announces

Two Curves, One Cusp

A talk by
Aaron Silberstein

Abstract

This is a talk about degenerate families. When a curve moves in a family to a singular curve, we can spin cohomology classes around the singularity so they meet — and this computes a local invariant of the family, called monodromy. Computing this monodromy is actually equivalent to understanding the singularity of the curve, so this technique is a fundamental tool in algebraic geometry. We will work out an example *very* explicitly using tools of hyperbolic and algebraic geometry to understand this phenomenon.

Thursday, October 22nd at 2:07 pm
Science Center 507