

Polynomials & Polytopes

What: Bi-State Math Colloquium

When: Wednesday, November 16, 4:00PM

Where: Loras College, Hennessy 280

Who: Angela Kohlhaas

One of the basic problems in mathematics is finding solutions to polynomial equations. Sometimes it's as easy as using the quadratic formula. Most times it's not. In this talk, we will explore a method of finding solutions using something called a Newton polytope, which is really just a polygon that might be n -dimensional and might have sides of infinite length. In the process, we'll talk about ideals, integral closure, and convex hulls.

Angela Kohlhaas is an Assistant Professor of Mathematics at Loras College. She likes making polytopes, sometimes with computers, sometimes with Play-Doh.