

Workshop on Interactions Between
Algebraic Combinatorics and Algebraic Geometry
May 28 - June 1, 2007

Integral closure and binomial ideals

Laura Matusevich
Department of Mathematics
Texas A&M University
Mailstop 3368
College Station, TX 77843-3368
USA
`laura@math.tamu.edu`

Abstract

I will describe work in progress, *joint with Milena Hering*, whose goal is to give a polyhedral description of the integral closure of a (primary) binomial ideal. The new ingredient we use is the explicit combinatorial expression for the primary components of a binomial ideal that I obtained in *joint work with Alicia Dickenstein and Ezra Miller*.