

Queen's Algebraic Geometry — Seminar —

GRÖBNER BASES, MONOMIAL GROUP ACTIONS AND THE COX RINGS OF DEL PEZZO SURFACES

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Abstract

In this talk we will describe the total coordinate rings (Cox rings) of the surfaces obtained by blowing up \mathbb{P}^2 at 4, 5 or 6 general points. We prove a conjecture of V. Batyrev and O. Popov which yields a presentation of these rings as a quotient of a polynomial ring by an ideal generated by quadrics. This talk is based on joint work with M. Stillman and D. Testa

Monday, November 6, 2006
4:30pm – 5:30pm
115 Jeffery Hall