

Queen's Algebraic Geometry — Seminar —

PUNCTUAL TRANSFORMATIONS OF THE PROJECTIVE SPACE AND THEIR FACTORIZATION

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Abstract

After introducing the notions of "Punctual transformation" and "Elementary transformation" of the projective space, I will show that the seconds are a subset of the firsts. The Noether factorization theorem, for birational maps of the plane, can be rephrased by saying that any punctual transformation of the projective plane is a composition of elementary transformations. I will show that, under certain hypothesis, this theorem can be generalized to the three dimensional case.

Monday, September 25, 2006
4:30pm – 5:30pm
115 Jeffery Hall