

Queen's Algebraic Geometry — Seminar —

POLYNOMIAL AND COMPLETE INTERSECTION SEPARATING ALGEBRAS

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Abstract

The idea of separating invariants comes from the desire to distinguish the orbits of a group action on a finite dimensional vector space. This can not be done in general, using just polynomial invariants, but we can still ask for a set of invariants to "separate" as much as the whole ring of invariants. Separating algebras (subalgebras that "separate") can be better behaved than the ring of invariants. In this talk we give necessary conditions for the existence of polynomial separating algebras (the "best" possible behaviour), and also for the existence of complete intersection separating algebras.

Monday, February 11, 2008
4:30pm – 5:30pm
319 Jeffery Hall