

# Queen's Algebraic Geometry — Seminar —

## ASYMPTOTIC BEHAVIOUR OF GENERIC INITIAL IDEALS

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### Abstract

Studying the asymptotic behaviour of algebraic objects has been a significant research trend of the past twenty years. In this talk we will discuss collections of monomial ideals formed by taking the generic initial ideals of powers of a fixed ideal called generic initial systems. We will illustrate the advantages of studying the asymptotic behaviour of families of ideals by investigating the generic initial systems associated to complete intersections and points in projective space. Finally, we will see recent extensions of this work to higher-dimensional subvarieties.

Monday 9 March 2015  
16:30–17:30  
319 Jeffery Hall