Queen's Algebraic Geometry
— Seminar —

Multigraded Hilbert Schemes

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Abstract

Hilbert schemes are the fundamental parameter spaces in algebraic geometry. Multigraded Hilbert schemes, introduced by Haiman and Sturmfels, consolidate many types of Hilbert schemes including Hilbert schemes of points in affine space, toric Hilbert schemes and the classical Grothendieck Hilbert schemes. In this talk, we'll survey the geometry of multigraded Hilbert schemes and discuss a new class of smooth and irreducible ones.

Monday, September 29, 2008
4:30pm – 5:30pm
319 Jeffery Hall