

# Queen's Algebraic Geometry — Seminar —

SYMBOLIC POWERS OF IDEALS OF LINES IN  $\mathbb{P}^3$

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## Abstract

Let  $I$  be an ideal of a polynomial ring  $R$ . Recently, there has been interest in comparing powers of  $I$  with its symbolic powers. It was asked by Huneke if the two ideals are always equal provided that they were equal for all powers less than or equal to the big height of the ideal. I will use a special configuration of lines in  $\mathbb{P}^3$ , that also has a bigraded structure, in order to give an answer to this question. This talk is based upon joint work with E. Guardo and B. Harbourne.

Monday 6 October 2014  
16:30–17:30  
319 Jeffery Hall