

# Queen's Algebraic Geometry — Seminar —

## SECANT VARIETIES OF TORIC VARIETIES

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### Abstract

Let  $X$  be a smooth complex variety of dimension  $n$  embedded in  $\mathbb{P}^r$ . The secant variety of  $X$ ,  $\text{Sec}(X)$ , is the closure of the union of all of the secant lines of  $X$ . I will discuss how to compute the dimension and degree of  $\text{Sec}(X)$  when  $X$  is a toric variety. This is joint work with David Cox.

Monday, January 17, 2004  
2:30pm – 3:30pm  
422 Jeffery Hall