

# Queen's Algebraic Geometry — Seminar —

## THE COX RING OF WONDERFUL COMPACTIFICATIONS

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### Abstract

The wonderful model of a hyperplane arrangement complement  $Y$  is a smooth compactification of  $Y$  with normal crossing boundary introduced by DeConcini and Procesi. Examples include the blow-up of  $\mathbb{P}^2$  at any number of points, and the moduli space  $\overline{M}_{0,n}$ . I will introduce these varieties, and describe an invariant ring description of their Cox rings, plus an associated power ideal description of the graded pieces of the Cox rings. This is joint work with Florian Block

Monday 21 October 2013  
16:30 – 17:30  
319 Jeffery Hall