

# Queen's Algebraic Geometry — Seminar —

## RINGS OF INVARIANTS FOR MODULAR REPRESENTATIONS OF THE KLEIN FOUR GROUP

R. James Shank  
University of Kent

### Abstract

The group algebra of the Klein four group over an infinite field of characteristic two is one of the relatively rare examples of a group algebra with tame representation type. In a recent paper with Müfit Sezer, we investigate the rings of invariants for the indecomposable representations. In each case, we compute the Noether number and give minimal generating sets for the Hilbert ideal and the field of fractions. In this talk, I will discuss our results, paying particular attention to the one-parameter families of even dimension.

Monday 7 October 2013  
16:30 – 17:30  
319 Jeffery Hall