

Algebra and Geometry Seminar

Speaker: David Wehlau (Royal Military College & Queen's University)

Title: Determining whether the invariants of a modular permutation representation are Cohen-Macaulay.

Abstract: In characteristic zero all invariant rings of finite groups are known to be Cohen-Macaulay, meaning these rings have a relatively nice structure. This can fail in positive characteristic. We describe a new numerical criterion for determining when this happens for subgroups of the symmetric group. I will define all the relevant terms and give explicit examples. This is joint work with Eddy Campbell.