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On the polynomial property of invariant rings of p -groups

Let V be a finite-dimensional vector space over a field F of characteristic $p > 0$ and let $G \subset GL(V)$ be a finite p -group. Assume $F[V]^G$ is polynomial. In this talk, we develop conditions that guarantee that $F[V]^H$ is also polynomial, where H is a maximal subgroup of G .

This is joint work with Eddy Campbell.