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On degree bounds for separating invariants

Degree bounds for invariants are an old topic. The Noether bound says that in the non-modular case, invariants up to degree at most the group order generate the invariant ring. This bound has been sharpened in many ways. Today, many people prefer to consider separating invariants, instead of a full set of generators. This has many advantages. For example, the Noether bound always holds for separating invariants, even in the modular case. The goal of this talk is to give similar sharpenings for the Noether bound for separating invariants, as they exist for generating invariants. One result is that for p -groups in characteristic p , the Noether bound for separating invariants is sharp.