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*Constructing modular separating invariants*

Consider a finite dimensional modular representation  $V$  of a cyclic group of prime order  $p$ . Two points in  $V$  that are in different orbits can be separated by an homogeneous invariant polynomial that has degree one or  $p$  and that involves variables from at most two summands in the dual representation. I will also talk about some lexsegment and Gotzmann ideals in invariant theory.