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A homogeneous generalization of a theorem of Ganong and Daigle

Let A be the polynomial algebra in n variables over a field of arbitrary characteristic. We will describe all subalgebras of A, generated by n homogeneous polynomials and containing prime powers of variables. This is a joint work with Andrzej Nowicki. The motivation comes from a theorem of Ganong and Daigle for two variables in characteristic p.