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Algebra of supersymmetric polynomials and invariants of general linear supergroup

In the case of characteristic zero, generators of the algebra of supersymmetric polynomials in the characteristic zero case were described by Stembridge. That result is related to a work of Kantor and Trishin who described generators of the algebra of invariants of general linear supergroup. In a joint work with A. N. Grishkov and A. N. Zubkov we described the generators of the algebra of supersymmetric polynomials and the algebra of invariants of general linear supergroup in the case of positive characteristic. I will give an overview of these results.