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Oliver Ruff* (oliver.ruff@gmail.com), Department of Mathematics, 2801 W Bancroft Street, University of Toledo, Toledo, OH 43606. *Centers of cyclotomic Sergeev superalgebras.*

The affine Sergeev superalgebra, introduced by Nazarov, is the twisted analogue of the degenerate affine Hecke algebra. Associated to it there is a family of finite-dimensional quotients called the *cyclotomic Sergeev superalgebras*, obtained by factoring out a polynomial expression of degree l in one of its generators. (This is analogous to the description of the group algebra of the symmetric group as a quotient of the degenerate affine Hecke algebra.) These algebras play an important role in the spin representation theory of the symmetric group.

We present an explicit description of the even centers of the cyclotomic Sergeev superalgebras in the case when the parameter l is odd, and thereby classify their blocks. Our approach is a generalization of the method recently used by Brundan to describe the centers of the degenerate cyclotomic Hecke algebras. (Received September 15, 2008)