

THE BLOCKS OF THE PERIPLECTIC BRAUER ALGEBRA IN POSITIVE CHARACTERISTIC

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Abstract: Representation theory of the symmetric group can be related to representation theory of the general linear group via Schur-Weyl duality. Similarly, Schur-Weyl duality also relates the orthogonal Lie group, the symplectic Lie group and the encompassing orthosymplectic Lie supergroup to the Brauer algebra, and it relates the periplectic Lie supergroup to the periplectic Brauer algebra.

In this talk I will introduce this periplectic Brauer algebra and give a classification of the blocks of its module category in positive characteristic.