

1133-16-367

**Benjiman C. Tharp\*** (btharp@math.ou.edu), Quincy, IL 62301. *On the representation theory of the marked Brauer algebra.*

The marked Brauer algebra is a diagram algebra which generalizes the ordinary Brauer algebra and is in Schur-Weyl duality with the type  $\mathfrak{p}$  Lie superalgebra. Like the ordinary Brauer algebra, this marked version has a very rich representation theory. We will discuss some of the interesting combinatorics which arise from studying certain representations of the marked Brauer algebra. (Received August 01, 2017)