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Representations of degenerate affine Brauer superalgebras. Preliminary report.

Periplectic Lie superalgebras $\mathfrak{p}(n)$ form the first family of so-called “strange” Lie superalgebras in the classification of reductive Lie superalgebras. In the process to construct higher Schur-Weyl duality for $\mathfrak{p}(n)$, non-semisimple algebras known as degenerate affine Brauer superalgebras (with defining parameter 0) were constructed in order to be used as a tool in understanding the representation theory of $\mathfrak{p}(n)$. I will describe an explicit collection of representations of degenerate affine Brauer superalgebras, which is our work-in-progress. This is joint with Zajj Daugherty, Iva Halacheva, and Emily Norton. (Received August 27, 2018)