1139-16-563   **Zajj B Daugherty*** (`zdaugherty@gmail.com`), New York, NY. *The affine signed Brauer algebra.*

The affine signed Brauer algebra arises in the study of the representation of the periplectic Lie super algebra via translation functors, analogous to the role of the degenerate affine Hecke algebras in studying representations of the general linear group. In this talk, we will explore its presentation as a diagram algebra, its natural action on tensor space, and other combinatorial structure. This is joint work with Martina Balagovic, Inna Entova-Aizenbud, Iva Halacheva, Johanna Hennig, Mee Seong Im, Gail Letzter, Emily Norton, Vera Serganova, and Catharina Stroppel. (Received February 19, 2018)