

1125-VP-2805 **Amanda Lohss***, agp47@drexel.edu, and **Paweł Hitczenko**. *Corners in tree-like tableaux*.

Tree-like tableaux are combinatorial objects which exhibit a natural tree structure and are connected to the partially asymmetric simple exclusion process (PASEP). There was a conjecture made on the total number of corners in tree-like tableaux and the total number of corners in symmetric tree-like tableaux. We have proven both conjectures based on a bijection with permutation tableaux and type-B permutation tableaux. In addition, we have shown that the number of diagonal boxes in symmetric tree-like tableaux is asymptotically normal and that the number of occupied corners in a random tree-like tableau is asymptotically Poisson. This extends earlier results of Aval, Boussicault, Nadeau, and Laborde Zubieta, respectively. (Received September 20, 2016)