Nathan Pflueger* (pflueger@brown.edu). Young tableaux and Brill-Noether theory.

Embeddings of algebraic curves in projective space are often studied using Brill-Noether varieties $G^r_d(C)$, which parameterize linear series on $C$. When $G^r_d(C)$ is finite set, its size can be computed as the number of standard young tableaux on a certain partition. I will describe how the combinatorics of young tableaux can be used to compute topological invariants of $G^r_d(C)$ when it has positive dimension, and several related results at the intersection of Brill-Noether theory and the combinatorics of tableaux. (Received September 01, 2014)