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**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  $G_d^r(C)$ , which parameterize linear series on  $C$ . When  $G_d^r(C)$  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  $G_d^r(C)$  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)