

1106-VM-1647 **Yoav Len*** (yoav.len@yale.edu), Yale University, 10 Hillhouse Ave., 442 Dunham Lab, New Haven, CT 06511. *Tropical Brill-Noether theory.*

I will discuss various results relating algebraic and combinatorial aspects of line bundles on curves. In tropical geometry, we associate a graph to an algebraic curve via a process known as *tropicalization*. Using lifting theorems, statements about the geometry of curves can be reformulated in terms of combinatorial problems on graphs. In my talk, I will introduce the theory of divisors on graphs, and explain how it can be applied to the study of line bundles on curves via degeneration. (Received September 14, 2014)