Meeting: 1007, Santa Barbara, California, SS 14A, Special Session on Algebraic Geometry and Combinatorics

1007-14-107   **Jenia Tevelev*** (`tevelev@math.utexas.edu`), University of Texas at Austin, Department of Mathematics, 1 University Station C1200, Austin, TX 78712-0257. *Tropical Compactifications.*

We study compactifications of very affine varieties defined by imposing a polyhedral structure on the non-archimedean amoeba. These compactifications have divisorial boundary with combinatorial normal crossings. We consider some examples including $M_{0,n} \subset \bar{M}_{0,n}$ (and more generally log canonical models of complements of hyperplane arrangements) and tropical recompactifications of Chow quotients of Grassmannians. (Received February 11, 2005)