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*Combinatorics of the tropical moduli space of curves.* Preliminary report.

I'll report on work in progress on computations of the tropical moduli space of curves of genus  $g$  with  $n$  marked points. This is a certain simplicial complex whose cells are indexed by edge-colored weighted dual graphs of stable algebraic curves. By using tropical geometry and a theorem of Payne, we are able to give new computations of some known results on the top graded pieces of the weight filtration on the cohomology of  $\mathcal{M}_{g,n}$ . (Received September 15, 2013)