

1103-05-172 **Laura Escobar***, 310 Malott Hall, Math dept, Ithaca, NY 14853. *Toric varieties of associahedra.*
In this talk we will define three objects: Bott-Samelson varieties, subword complexes and brick polytopes. More importantly we will discuss how these objects are connected: the moment polytope of a fiber of the Bott-Samelson map is the Brick polytope. In particular, we give a nice description of the toric variety of the associahedron in terms of flags arranged in a poset. (Received August 18, 2014)