

1106-14-2727 **Laura Escobar*** (1e78@cornell.edu), Ithaca, NY 14853. *Bott-Samelson varieties, subword complexes and 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 description of the toric variety of the associahedron in terms of flags arranged in a poset. (Received September 16, 2014)