

1163-13-924      **Keller VandeBogert\*** ([kellerlv@math.sc.edu](mailto:kellerlv@math.sc.edu)). *Trimming Complexes and Their Applications*.

In this talk, we will introduce trimming complexes and study their applications to a wide range of ideals. These complexes, at their most basic, are used to resolve the ideal obtained by "trimming" a generator of an ideal and rescaling by a new ideal. The resulting resolution only depends on the resolution of the original ideal and the rescaling ideal. As a result, we obtain consequences for the structure theory of certain compressed Artinian  $k$ -algebras, determinantal facet ideals, and classes of (rainbow) equigenerated monomial ideals. (Received September 14, 2020)