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**Sara Faridi\*** ([faridi@dal.ca](mailto:faridi@dal.ca)). *Resolutions of monomial ideals and simplicial collapses*. Preliminary report.

To people who study free resolutions of monomial ideals, it is known that Betti numbers of a monomial ideal can be interpreted as dimensions of simplicial homology modules. In combinatorial topology, simplicial collapsing is a method of relating the homology of a simplicial complex  $D$  to that of a subcomplex of  $D$ . In this talk, we will use simplicial collapsing to demonstrate what Betti numbers may or may not be expected for a given monomial ideal. (Received August 27, 2014)