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Trevor McGuire* (tmcgui1@lsu.edu). *Combinatorial Algorithms for Generating Free Resolutions of Ideals with Binomials and Monomial Generators.*

In recent years, the combinatorial properties of monomial ideals and binomial ideals have been widely studied. In particular, combinatorial interpretations of free resolution algorithms have been given in both cases. In this presentation, we will introduce a similar combinatorial algorithm that will generate free resolutions of ideals with both binomial and monomial generators. The algorithm will reduce to the aforementioned algorithms in the case where only one type of generator is present. (Received September 10, 2013)