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**Erin Bela\*** (ebela@nd.edu). *Numerical Macaulification.*

An ideal  $J \subset k[x_0, \dots, x_n]$  is said to be *Numerically ACM* (NACM) if  $R/J$  has the Hilbert function of some codimension  $c$  ACM subscheme of  $\mathbb{P}^n$ . In this talk, I describe an algorithm which takes an arbitrary ideal and produces, via a finite sequence of basic double links, an ideal which is numerically ACM. An immediate consequence of this result is that every even liaison class of codimension  $c$  subschemes of  $\mathbb{P}^n$  contains elements which are NACM. This was first proved for the codimension two case by Migliore and Nagel, and I will demonstrate that these results can be extended to higher codimension. In the case of curves in  $\mathbb{P}^4$  we also draw conclusions about the NACM property for codimension two even liaison classes on a hypersurface. This is closely related to questions of maximal rank by multiplication by a general linear form of a certain algebra. (Received January 22, 2018)