

1011-13-281 **Ezra Miller*** (ezra@math.umn.edu). *Encoding injective resolutions*. Preliminary report.

To what extent can injective resolutions of finitely generated modules over polynomial rings be represented by finite data structures? Is there hope that such data structures could be computed by an effective algorithm? Combinatorially encoding the drops of Betti numbers under localization could play a key role. (Received August 29, 2005)