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**Alexandre B. Tchernev\*** (tchernev@math.albany.edu). *Minimal free resolutions for a class of monomial ideals*. Preliminary report.

For a monomial ideal  $I$  with a ranked LCM-lattice we construct a minimal finite complex  $F$  of multigraded free modules that approximates the minimal free resolution of  $I$ . We describe some classes of monomial ideals for which the complex  $F$  is a minimal free resolution. (Received February 06, 2006)