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**Hal Schenck\*** ([schenck@math.uiuc.edu](mailto:schenck@math.uiuc.edu)), Math Dept, 1409 W. Green St., UIUC, urbana, IL 61801. *Piecewise polynomials and equivariant Chow cohomology of nonsimplicial toric varieties*. Preliminary report.

For a toric variety  $X_\Sigma$  determined by a polyhedral fan  $\Sigma$ , we give a formula for the third Chern class of the equivariant Chow cohomology. The first two Chern classes depend only on the combinatorics of  $\Sigma$ , but  $c_3$  depends on the geometry of codimension two intersections of facets of  $\Sigma$ . (Received September 21, 2009)