Hal Schenck* (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)