1019-13-36 Achilleas Sinefakopoulos\* (asin@math.cornell.edu), Cornell University, Department of Mathematics, Malott Hall, Ithaca, NY 14853. On Borel fixed ideals generated in one degree.

We construct a (shellable) polyhedral cell complex that supports a minimal free resolution of a Borel fixed ideal, which is minimally generated (in the Borel sense) by just one monomial in  $S = \mathbb{k}[x_1, x_2, ..., x_n]$ ; this includes the case of powers of the homogeneous maximal ideal  $(x_1, x_2, ..., x_n)$  as a special case.

In our most general result we prove that for any Borel fixed ideal I generated in one degree, there exists a polyhedral cell complex that supports a minimal free resolution of I. (Received July 26, 2006)