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Stable splitting of Generalized Moment-Angle Complexes.

Toric varieties are an important family of spaces occurring in algebraic geometry and topology. In their seminal paper, Davis and Januszkiewicz define the moment-angle complex associated to a toric variety which in turn is associated to a simplicial complex. It was then generalized by Strickland. The cohomology of the generalized moment-angle complex was computed by Goresky and MacPherson in terms of the underlying simplicial complex. In joint work with A. Bahri, F. Cohen and S. Gitler we show that the generalized moment angle complex stably splits into pieces corresponding to the Goresky MacPherson theorem. As a consequence there is an analogous splitting for an arbitrary generalized homology theory. (Received September 09, 2008)