

**Meeting:** 1001, Evanston, Illinois, SS 1A, Special Session on Modern Schubert Calculus

1001-53-228      **Megumi Harada\*** ([megumi@math.toronto.edu](mailto:megumi@math.toronto.edu)), Department of Mathematics, 100 St. George St., University of Toronto, Toronto, Ontario M5S3G3, Canada. *The  $T$ -equivariant cohomology of cell complexes and the case of infinite Grassmannians.*

Explicit computations of equivariant cohomology rings have many applications. In 1998, Goresky, Kottwitz, and MacPherson showed that for certain spaces with a torus action, the equivariant cohomology ring can be explicitly described by combinatorial data obtained from its orbit decomposition. We generalize their theorem to the (possibly infinite-dimensional) setting of cell complexes. These results include many new examples, including homogeneous spaces of a loop group LG. (Received August 27, 2004)