

## A Degree Formula for Equivariant Cohomology

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I will talk about a generalization of a result of Lynn on the “degree” of an equivariant cohomology ring  $H_G^*(X)$ . The degree of a graded module is a certain coefficient of its Poincaré series, expanded as a Laurent series about  $t = 1$ . The main theorem is an additivity formula for degree:

$$\deg(H_G^*(X)) = \sum_{[A,c] \in \mathcal{Q}'_{max}(G,X)} \frac{1}{|W_G(A,c)|} \deg(H_{C_G(A,c)}^*(c)).$$

This work is joint with Mark Blumstein.