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Cohomology of Hessenberg varieties

Hessenberg varieties are subvarieties of complete flag varieties G/B associated to Hessenberg subspaces, which are b-submodules of g containing b, where b and g are the Lie algebras of B and G. When the subspace is the sum of b and the negative root spaces, it is the toric variety associated with the fan defined by the hyperplanes orthogonal to the roots of g. In this talk we will investigate the Weyl group action on the cohomology spaces of Hessenberg varieties.