

1120-05-281

Elizabeth Drellich* (elizabeth.drellich@unt.edu) and **Anne Shepler**. *Complex reflection groups and GKM splines.*

The torus equivariant cohomology of Schubert varieties, flag varieties, and Grassmannians can be presented as the collections of allowed labels on the vertices of particular graphs, called GKM graphs for Goresky, Kottwitz, and MacPherson. Which labels are allowed depend on the orbits of the variety under the torus action, which in turn correspond to reflections in the Weyl group. Similar graphs and collections of allowed labels can be constructed corresponding to complex reflection groups. Omar Ortiz showed that those constructed using the complex reflection group $G(r, p, n)$ correspond to p -compact groups. This talk will discuss recent work towards generalizing these results to other complex reflection groups. (Received February 23, 2016)