

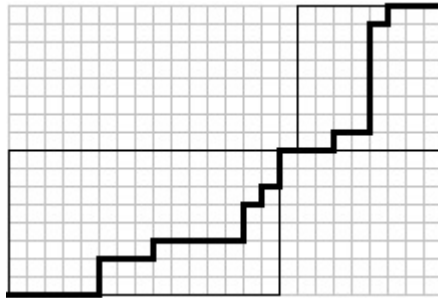
Student Research Talks (StReeTs)

Mason Experimental Geometry Lab (MEGL)

Counting Subwords of Elements of S_n

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Abstract

For a particularly nice T -space X the inclusion of the T -fixed point set $X^T \hookrightarrow X$ induces an inclusion on equivariant cohomology $H_T^*(X) \hookrightarrow H_T^*(X^T)$. In the case of the complete flag manifold $Fl(n; \mathbb{C})$, the image of the map $H_T^*(Fl(n; \mathbb{C})) \hookrightarrow H_T^*(Fl(n; \mathbb{C})^T)$ is computed combinatorially using Billey's formula. This involves finding reduced word expressions for a permutation $\sigma \in S_n$ in a fixed reduced word expression for a "longer" permutation. We use these techniques to better understand the S^1 -equivariant cohomology of type A Peterson varieties \mathcal{Y} .

Date: Friday, February 24, 2017

Time: 2:30pm–3:30pm

Place: Exploratory Hall 4106

Pizza and soda will be served at the presentation.

For further information or for special accommodations, please contact Sean Lawton via email at seanlawton@gmail.com or drop by the MEGL.