

Grothendieck polynomials, and factoring permutations using one Demazure factor too many.

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We explain a conjectural generalization to Grothendieck polynomials for the expansion of type A Schubert polynomials into Demazure characters. In the process of exploring this conjecture, we became distracted by a product formula, counting factorizations in the 0-Hecke algebra for certain dominant permutations w , where the number of factors is one greater than the Coxeter length of w . We describe this product formula, sketch its proof, and a conjectural generalization.

(Joint work with Alex Yong)