1031-05-37   **Alexander T Yong*** (`ayong@math.umn.edu`), 127 Vincent Hall, 206 Church Street SE, Minneapolis, MN , and **Hugh Thomas**. *Schubert combinatorics.*

The topic of Schubert varieties of homogeneous spaces G/P is at the interface between algebraic geometry, Lie theory and combinatorics. I'll focus on the topic of Schubert calculus: counting points in intersections of Schubert varieties. A goal has been combinatorial rules for these computations. I'll explain the *carton rule* which manifests basic symmetries of the numbers for the Grassmannian case (or equivalently, tensor product multiplicities of irreducible representations of $SL_n(\mathbb{C})$) this version also has the advantage of generalizing to (co)minuscule G/P and (conjecturally) other contexts. (Received July 30, 2007)