Meeting: 1001, Evanston, Illinois, SS 1A, Special Session on Modern Schubert Calculus

1001-14-147 **Kevin Purbhoo***, 222 College St., Toronto, ON Canada, and **Frank Sottile**. *A Horn-type Recursion for Minuscule Schubert Calculus.* Preliminary report.

Horn's conjecture as classically stated, is a statement about the possible eigenvalues of triples of Hermitian matrices (A, B, C) satisfying $A + B + C = 0$. Restated however, it can be viewed as a recursive construction of the set of non-vanishing Littlewood-Richardson numbers. We prove a generalisation of Horn's conjecture, which recursively characterises the non-vanishing Schubert intersection numbers for all minuscule flag varieties. (Received August 21, 2004)