1073-05-44   **Sami Assaf*** (`sassaf@math.mit.edu`), **Nantel Bergeron** and **Frank Sottile**. *A combinatorial rule for the product of a Schubert polynomial by a Schur function.*

A fundamental problem in the Schubert calculus of the flag manifold is to find a Littlewood–Richardson rule for the product of two Schubert polynomials. Using the theory of dual equivalence graphs, we give a combinatorial rule for the special case of multiplying a Schubert polynomial by a Schur function. (Received July 19, 2011)