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**Edward Richmond** (edward.richmond@okstate.edu), **Vasu Tewari\***  
(vasut@math.washington.edu) and **Steph van Willigenburg** (steph@math.ubc.ca). *A  
noncommutative geometric Littlewood-Richardson rule.*

The geometric Littlewood-Richardson rule is a combinatorial algorithm for computing Littlewood-Richardson coefficients derived from degenerating the Richardson variety into a union of Schubert varieties in the Grassmannian. Such rules were first given by Vakil, and later generalized by Coskun.

In this talk, we will describe a noncommutative version of the geometric Littlewood-Richardson rule, and use it to establish a geometric explanation for positivity of noncommutative Littlewood-Richardson coefficients in certain cases. (Received February 09, 2016)