

1009-05-39

K. Purbhoo and **F. Sottile***, Department of Mathematics, Mailstop 3368, Texas A&M University, College Station, TX 77843-3368. *The Horn recursions for Schur P - and Q - functions.*

Work of Klyachko and of Knutson and Tao proved Horn's recursion for non-zero Littlewood-Richardson coefficients: A Littlewood-Richardson coefficient is non-zero if and only if it satisfies linear inequalities imposed by smaller Littlewood-Richardson coefficients. Belkale gave a proof of this recursion using geometry. In this talk, I will discuss similar recursions for the analog of the Littlewood-Richardson coefficients for Schur P - and Q - functions, obtained by generalizing Belkale's work. While the coefficients for each type differ only by a (known) power of 2, the geometry of cominuscule flag manifolds gives two different recursions, one for each type. (Received July 20, 2005)