

1129-05-369

**Maria M Gillespie\*** ([mgillespie@math.ucdavis.edu](mailto:mgillespie@math.ucdavis.edu)), 1528 Walnut St, Apt 4, Berkeley, CA 94709. *Crystal structures on shifted tableaux*. Preliminary report.

I will describe raising and lowering operators  $E, F$  and  $E', F'$  on shifted semistandard tableaux – more generally, on words from an alphabet with primed and unprimed letters – which commute with shifted jeu de taquin. These operators give rise to a crystal-like structure on such tableaux, recovering the combinatorics of Schur  $P$ -functions and the Littlewood-Richardson rule for the odd orthogonal Grassmannian. This is joint work with Jake Levinson and Kevin Purbhoo. (Received March 20, 2017)