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Victor Kreiman* (vkreiman@vt.edu). *Equivariant tableaux and a generalization of the Robinson-Schensted-Knuth correspondence.*

I will describe a set of tableaux which are in bijection with Knutson and Tao's equivariant puzzles and which thus compute positive equivariant Littlewood-Richardson coefficients. I will also describe a generalization of the Robinson-Schensted-Knuth correspondence and show how it can be used to prove a result of Kreiman-Lakshmibai and Kodiyalam-Raghavan which gives a Grobner basis for the tangent cone at any point of a Schubert variety in the Grassmannian. (Received February 21, 2005)