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Gregory S. Warrington* (gswarrin@uvm.edu), Department of Mathematics and Statistics,
University of Vermont, 16 Colchester Ave., Burlington, VT 05405. *Computations of type-A
Kazhdan-Lusztig polynomials of maximal degree.* Preliminary report.

A Kazhdan-Lusztig polynomial is associated to every pair of permutations x and w in the symmetric group on n letters. The polynomials of maximal possible degree (i.e., those with $\mu(x, w) \neq 0$) play an important role in the representation theory of this group. In this talk we discuss some experimental results and conjectures regarding these particular polynomials. (Received February 09, 2009)