1073-05-105   **Gregory S. Warrington*** (`gregory.warrington@uvm.edu`), Department of Mathematics & Statistics, University of Vermont, 16 Colchester Ave., Burlington, VT 05401. *Kazhdan-Lusztig polynomials and their μ-coefficients.*

Kazhdan-Lusztig polynomials encode important information about the intersection cohomology of Schubert varieties as well as the multiplicities for Verma modules. Unfortunately, there are still enormous gaps in our combinatorial understanding of these polynomials. In this talk I discuss some results relating to their "μ-coefficients". These coefficients, which are central to Kazhdan and Lusztig's construction of the irreducible representations of the symmetric group, control the recursive structure of the Kazhdan-Lusztig polynomials. (Received July 29, 2011)