

1023-20-990

Victor Ostrik* (vostrik@uoregon.edu), University of Oregon, Department of Mathematics,
Eugene, OR 97403. *Tensor categories attached to cells in finite Weyl groups.*

For a two sided cell in a Weyl group, Lusztig attached a tensor category using truncated convolution of perverse sheaves on the corresponding flag variety. Moreover, Lusztig gave a precise conjecture on the structure of these tensor categories. In this talk we describe a proof of this conjecture for almost all two sided cells (joint work with R.Bezrukavnikov and M.Finkelberg). On the other hand the conjecture fails for exceptional two sided cells. (Received September 24, 2006)