

1123-11-71

Manish M Patnaik and **Anna Puskas*** (puskas@ualberta.ca). *Metaplectic Iwahori-Whittaker functions and Demazure-Lusztig operators.*

This talk will present joint work with Manish Patnaik on the construction of p -adic Iwahori-Whittaker functions in the metaplectic setting. The constructions are in terms of Demazure-Lusztig operators for covers of both finite dimensional and affine Kac-Moody groups. This work provides a metaplectic analogue of earlier work by Brubaker-Bump-Licata and Patnaik. The metaplectic Demazure-Lusztig operators utilize the Chinta-Gunnells action, a metaplectic action of the Weyl group on the coweight lattice. The formulae in the affine case are related to Macdonald's constant term conjecture through combinatorics of Weyl group symmetrizers. (Received August 15, 2016)