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**George Lusztig\*** ([gyuri@math.mit.edu](mailto:gyuri@math.mit.edu)). *Involutions in Coxeter groups.*

Let  $I$  be the set of involutions in a Weyl group  $W$  with Hecke algebra  $H$ . In a 2012 paper, Vogan and the author defined an  $H$ -module structure  $M$  on a vector space with basis indexed by  $I$ . In this talk, I will present two results related to  $M$ . 1) I will show how  $M$  can be used to compute a "Poincare series based on involutions" in  $W$ . 2) I will show that  $M$  can be realized as the left ideal in  $H$  generated by a single, rather simple element of  $H$ . Both results can be extended to arbitrary Coxeter groups. (Received September 11, 2015)