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**Matjaz Konvalinka\*** ([matjaz.konvalinka@vanderbilt.edu](mailto:matjaz.konvalinka@vanderbilt.edu)), 1326 Stevenson Center, Nashville, TN 37240. *MacMahon master theorem in Hecke algebras.*

MacMahon master theorem gives the coefficients of  $1/\det(I-tA)$  for a square matrix  $A$  and a variable  $t$ , and is classically used to prove binomial identities. Goulden and Jackson proved that Jacobi-Trudi determinants of these coefficients give immanants of the matrix. In this talk, we will see how to formulate and prove similar statements in Hecke algebras of Coxeter groups. Most of this is joint work with Mark Skandera. (Received February 09, 2009)