

1086-AG-2036 **Jim Haglund*** (jhaglund@math.upenn.edu). *The Zeros of Eulerian polynomials and their Multivariate Extensions.*

Eulerian polynomials are the generating function of descents over permutations. They are a canonical example of a sequence of polynomials in combinatorics having only real zeros. In this talk we discuss various extensions of this result, including a multivariate Eulerian polynomial arising from the study of permanents which is stable in the sense of Brändén and Borcea. (Received September 24, 2012)