

1135-VT-2921 **Gene B Kim***, genebkim@usc.edu. *Distribution of descents in matchings.*

The distribution of descents in a fixed conjugacy class of S_n is studied, and it is shown that its moments have an interesting property. A particular conjugacy class that is of interest is the class of matchings (also known as fixed point free involutions). This paper provides a bijective proof of the symmetry of the descents and major indices of matchings and uses a generating function approach to prove an asymptotic normality theorem for the number of descents in matchings. (Received September 26, 2017)