1009-05-170   **Mark A. Skandera*** (`mskander@haverford.edu`), Department of Mathematics, Haverford College, 370 Lancaster Ave., Haverford, PA 19041. *On the factorization of Kazhdan-Lusztig basis elements.*

We describe a factorization of 3412-avoiding, 4231-avoiding permutations by reversals, and a factorization of the corresponding Kazhdan-Lusztig basis elements of $H_n(q)$. This provides a combinatorial interpretation of the basis elements analogous to one implicit in work of Billey and Warrington. (Received August 15, 2005)