## 1024-05-47 Miklos Bona\* (bona@math.ufl.edu), Department of Mathematicscs, University of Florida, Gainesville, FL, and Arnold Knopfmacher. Almost All Permutations Have a Unique Longest Cycle.

Let  $u_n$  be the probability that a randomly selected permutation of length n has a unique longest cycle. We prove that  $\lim_{n\to\infty} u_n = 1$ . We then generalize this result by proving that for any positive integer d, the probability that the longest, second longest,  $\cdots$ , dth longest cycle of p are all unique converges to 1 as well. (Received December 26, 2006)