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 $\lim _{n \rightarrow \infty} u_{n}=1$. We then generalize this result by proving that for any positive integer $d$, the probability that the longest, second longest, $\cdots, d$ th longest cycle of $p$ are all unique converges to 1 as well. (Received December 26, 2006)

