

1046-05-593

D. Jacob Wildstrom* (dwildstr@erdos.math.louisville.edu), 328 Natural Sciences Building, Department of Mathematics, University of Louisville, Louisville, KY 40292. *On sums of permutations and sequences with distinct terms*. Preliminary report.

A result of Marshall Hall's demonstrates that for any sequence \mathbf{b} of $n - 1$ numbers, there exists an element π of S_{n-1} such that all of the sums $b_i + \pi(i)$ are distinct modulo n . Kézdy and Snevily conjectured that the same holds if \mathbf{b} is of length k and π is in S_k for any $k < n$. The Kézdy-Snevily function $f(n, k)$ is the minimum number of such π ranging over all choices of \mathbf{b} . The original conjecture is implied by monotonicity of this function in n and k , and several cases in which monotonicity occurs are presented here. (Received September 08, 2008)