

1135-VS-2771 **Christopher Richardson*** (crichardson@ksu.edu), 1404 Yuma St., Manhattan, KS 66502, and
Chris Pinner and **Todd Cochrane**. *A Generalization of the Goresky-Klapper Conjecture.*

For a fixed integer n , we show that a permutation of least positive residues of $f(x) = Ax^k \pmod p$ cannot map a residue class mod n to just one residue class mod n for sufficiently large p , other than the maps $f(x) = \pm x$ and $f(x) = \pm x^{\frac{p+1}{2}} \pmod p$. (Received September 26, 2017)