1046-05-1262 **Ken Shoda*** (`kenshoda@gwu.edu`), 1628 Massachusetts Ave SE, Washington, DC 20003.
Super-exponential families of nonisomorphic matroids having the same Tutte polynomial.

Omer Giménez showed how to construct, for each permutation of $[n]$, a matroid on $4n+5$ elements so that all $n!$ resulting matroids are nonisomorphic but have isomorphic lattices of cyclic flats of width 2. We show that these matroids in fact have the same Tutte polynomial. Thus, this gives a super-exponential family of nonisomorphic matroids having isomorphic lattices of cyclic flats and the same Tutte polynomial. (Received September 15, 2008)