

1068-05-84

**Michael H. Albert, M. D. Atkinson, Mathilde Bouvel, Nik Ruškuc and Vincent Vatter\***, vatter@ufl.edu. *Geometric grid classes of permutations.*

A geometric grid class is, roughly speaking, the set of permutations that can be drawn on a set of  $45^\circ$  line segments in the plane. We establish two significant properties of such permutation classes: they are partially well-ordered (i.e., they have no infinite antichains), and they have rational generating functions. (Received January 13, 2011)