

1030-60-284

Pawel Hitczenko* (phitczenko@math.drexel.edu), Department of Mathematics, Drexel University, Philadelphia, PA 19104. *Statistics on permutation tableaux*. Preliminary report.

Permutation tableaux are relatively new objects that are in bijection with permutations. They have been introduced in the context of algebraic combinatorics and recently have found interesting connections to PASEP (Partially ASymmetric Exclusion Process), a particle model in statistical physics.

In this talk I will describe an elementary approach that allows one to analyze stochastic properties of basic statistics defined on (random) permutation tableaux: the number of unrestricted rows, the number of 1's in the top row, the number of superfluous 1's.

The talk is based on joint work with Sylvie Corteel. (Received August 06, 2007)