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Ariel R Levavi* (alevavi@andrew.cmu.edu), Carnegie Mellon University, 5032 Forbes Avenue, SMC 4712, Pittsburgh, PA. *Properties of Permutation Tableaux.*

Permutation tableaux are matrices filled with 0s, 1s, and 2s that share a natural bijection with permutations. The only constraints on the tableau is that every column must contain at least one 1 and that there does not exist a 0 in the matrix such that there is a one in the entries right above and to the left of it. This talk explores properties of the tableau and bijections between these properties and properties of permutations and various corresponding diagrams. (Received September 21, 2006)