1056-05-1113Adam C Hesterberg* (ahesterb@princeton.edu), 4342 Frist Center, Princeton, NJ 08544.Extremal functions of excluded block permutation matrices.

For a 0-1 matrix P, ex(n, P) is the maximum number of ones in an $n \times n$ matrix that cannot be reduced to P by deleting some rows and columns and changing some 1s to 0s. We show that if P is a permutation matrix and Q is arbitrary, then the order of growth of $ex(n, P \otimes Q)$ is the same as that of ex(n, Q) (up to, in some cases, a factor of n^{ϵ}), extending a result used in the proof of the Stanley-Wilf conjecture. (Received September 20, 2009)