ELA

PERMANENTS OF HESSENBERG $(0,1)$-MATRICES REVISITED[*]

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Abstract. This paper considers the maximum value of the permanent over the class $\mathcal{H}(m,n)$ of $n \times n$ Hessenberg, $(0,1)$-matrices with m 1's, and shows that among those matrices that attain the maximum value there exists a matrix with a special form. This special form determines the exact value of the maximum permanent on $\mathcal{H}(m,n)$ for certain values of m and n.

Key words. Hessenberg matrices, Permanents.

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