

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 .

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