

Zbl 125.28206

Erdős, Pál; Ginzburg, A.

On a combinatorial problem in Latin squares (In English)

Publ. Math. Inst. Hung. Acad. Sci., Ser. A 8, 407-411 (1963).

Let S_n be an arbitrary $n \times n$ Latin square. There exists a principal minor of order not greater than $Cn^{q/(q+1)}(\log n)^{1(q+1)}$ containing every q -tuple $(a_{i_1}, a_{i_2}, \dots, a_{i_q})$ [$i_1, i_2, \dots, i_q = 1, 2, \dots, n$ and all i -s are different] in some column; C is a sufficiently large absolute constant. Some unsolved problems connected with this result are formulated.

V. Belousov

Classification:

05B15 Orthogonal arrays, etc.