
Zbl 251.04004

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Problems in combinatorial set theory. (In English)

Combinat. Struct. Appl., Proc. Calgary internat. Conf. combinat. Struct. Appl., Calgary 1969, 97-100 (1970).

[For the entire collection see Zbl 243.00004.]

Several solved and unsolved problems on partition calculus are discussed. Here I only state those problems which are mentioned in the paper and which have been solved since then. *Jean Larson* and *Eric Milner* proved $\omega^\omega \to (\omega^\omega, n)^2$, *Baumgartner* and *Hajnal* proved $\lambda \to (\alpha, \ldots, \alpha)^2$ for every $\alpha < \omega_1$, *Nosal* has several new results on $\omega^l \to (\omega^n, m)^2$ and *Laver* proved several of our conjectures on ordered sets, and last but not least *Hajnal* proved $\omega_1^2 \nrightarrow (\omega_1^2, 3)^2$. The later results of *Hajnal* and *Baumgartner* give a complete discussion of the truth value of $\omega_\alpha^2 \to (\omega_\alpha^2, 3)^2$.

Classification:
04A10 Ordinal and cardinal numbers; generalizations
05A17 Partitions of integres (combinatorics)
05-02 Research monographs (combinatorics)
04A20 Combinatorial set theory
00A07 Problem books