
Zbl 285.04002

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Some remarks on set theory. XI. (In English)

Fundam. Math. 81, 261-265 (1974). [0016-2736]

The authors solve the following problem: Let $|S| = m$ determine the largest cardinal $f(m)$ so that if $A_\alpha \subset S$, $|A_\alpha| < m$, are subsets of S no one of which contains any other one can always find m of the sets A_α whose union has a complement of size $\geq f(m)$. The author determines $f(m)$ for every infinite cardinal m, e.g. $f(\aleph_0) = \aleph_0$.

Classification:
04A10 Ordinal and cardinal numbers; generalizations
04A20 Combinatorial set theory