

Zbl 311.05113

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The chromatic index of an infinite complete hypergraph: A partition theorem.

(In English)

Proc. 1rst Working Sem. Hypergraphs, Columbus 1972, Lecture Notes Math. 411, 54-60 (1974).

[For the entire collection see Zbl 282.00007.]

Let p, m and n be three cardinals such that $p < m < n$ and $1 < p < \omega \leq n$, and let S denote a set of cardinality n . The authors show, assuming the axiom of choice, that the m -tuples of S can be coloured with n^m colours such that every p -tuple of S is contained in exactly one m -tuple of each colour.

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Classification:

05C15 Chromatic theory of graphs and maps

05C99 Graph theory