

Zbl 593.05038

Erdős, Paul; Frankl, P.; Rödl, Vojtěch

The asymptotic number of graphs not containing a fixed subgraph and a problem for hypergraphs having no exponent. (In English)

Graphs Comb. 2, 113-121 (1986). [0911-0119]

From the authors' abstract: "Let H be a fixed graph of chromatic number r . It is shown that the number of graphs on n vertices and not containing H as a subgraph is $2^{\binom{n}{2}(1-\frac{1}{r-1}+o(1))}$. Let $h_r(n)$ denote the maximum number of edges in an r -uniform hypergraph on n vertices and in which the union of any three edges has size greater than $3r-3$. It is shown that $h_r(n) = o(n^2)$ although for every fixed $c < 2$ one has $\lim_{n \rightarrow \infty} h_r(n)/n^c = \infty$."

E.M.Palmer

Classification:

05C30 Enumeration of graphs and maps

05C65 Hypergraphs

Keywords:

uniform hypergraph