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Articles of (and about)

Erdős, Pál

Some remarks on Ramsay's theorem (In English)

Can. Math. Bull. 7, 619-622 (1964). [0008-4395]

Let G be a graph whose vertices are the integers. If G contains no infinite complete subgraph then according to Ramsey's theorem [Proc. London math. Soc. 30, 264-286 (1929)] it contains an infinite set of independent vertices; it cannot be asserted that the vertices  $n_1 < n_2 < \cdots$  of such an independent set do not tend to infinity too rapidly. However, it is shown that if G contains no triangles, then there exists an infinite set of independent vertices  $n_1 < n_2 < \cdots$  such that  $n_k < (1 + o(1))k^2/2$  for infinitely many k.

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Classification:

05C55 Generalized Ramsey theory