

Zbl 129.39904

Erdős, Pál; Pósa, L.

*On independent circuits contained in a graph* (In English)

Can. J. Math. 17, 347-352 (1965). [0008-414X]

Let  $r(k)$  denote the least integer  $r$  such that if  $G$  is any graph containing a maximum of  $k$  node-disjoint circuits then there exists a set of  $r$  nodes of  $G$  such that every circuit of  $G$  passes through at least one of these nodes. Bollbás (unpublished) has shown that  $r(1) = 3$ . (The complete 5- graph shows that  $r(1) \geq 3$ .) In the present paper it is shown that there exist absolute constants  $c_1$  and  $c_2$  such that  $c_1 k \log k < r(k) < c_2 k \log k$ .

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Classification:

05C35 Extremal problems (graph theory)