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More results on subgraphs with many short cycles. (In English)

Combinatorics, graph theory and computing, Proc. 15th Southeast. Conf., La. State Univ. 1984, Congr. Numerantium 43, 295-300 (1984).

[For the entire collection see Zbl 547.00011.]

The authors show that for sufficiently large n every graph of order n and size $n^{2-3\epsilon}$ contains a subgraph of order m and size $cn^{2-\epsilon}$, where c does not depend on m , n or ϵ , in which every two edges are on a cycle of length at most 6, and that apart from the value of c this result is best possible, i.e., 3 cannot be replaced by any smaller value.

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