

Zbl 513.05038

**Erdős, Paul**

*Ramsey numbers for brooms.* (In English)

**Combinatorics, graph theory and computing, Proc. 13th Southeast. Conf., Boca Raton 1982, Congr. Numerantium 35, 283-293 (1982).**

[This article was published in the book announced in Zbl 504.00004.]

From the author's abstract: A broom  $B_{k,\ell}$  is a tree obtained by identifying an endvertex of a path on  $\ell$  vertices with the central vertex of star on  $k$  edges. The Ramsey number  $r(B_{k,\ell})$  is determined precisely for  $\ell \geq 2k$  and relatively sharp bounds are found for  $1 \leq \ell < 2k$ . For appropriate choices of  $k$  and  $\ell$  show  $r(B_{k,\ell}) = \lfloor 4(k + \ell)/3 - 1 \rfloor$  which is the smallest possible value of the Ramsey number of any tree on  $k + \ell$  vertices.

*E. Palmer*

Classification:

05C55 Generalized Ramsey theory

05C05 Trees

Keywords:

Ramsey numbers of trees